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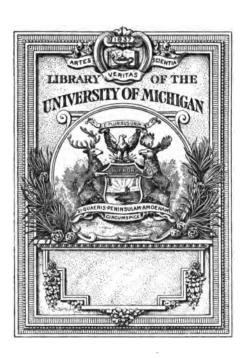
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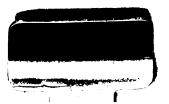
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### TWENTY-EIGHT ANNUAL REPORT

OF THE

# BOARD OF HEALTH

OF THE

## STATE OF NEW JERSEY

AND

# Report of the Bureau of Vital Statistics

1904.

NEWS PRINTING CO., STATE PRINTERS, PATERSON, NEW JERSEY. 1905.

#### BOARD OF HEALTH OF THE STATE OF NEW JERSEY.

The Secretary of State, The Attorney-General, The State Geologist,

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President.......CYRUS F. BRACKETT. Secretary......HENRY MITCHELL.

THE OFFICE OF THE BOARD IS IN THE STATE HOUSE, TRENTON.

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### TRENTON, N. J., October 31st, 1904.

To His Excellency, Franklin Murphy, Governor:

SIR—I have the honor to herewith transmit the twenty-eighth annual report of the Board of Health of the State of New Jersey, and the report of the Bureau of Vital Statistics for the year ending December 31st, 1903.

Very respectfully,

HENRY MITCHELL, Secretary.

**(1)** 

## General Report.

To His Excellency, Franklin Murphy, Governor:

SIR—In conformity with the provisions of chapter 68 of the laws of 1887, the Board of Health of the State of New Jersey herewith submits its annual report.

#### LEGISLATION RELATING TO THE PUBLIC HEALTH.

Reference to the annual volumes of the public laws shows that since the establishment of State and local departments of public health (1880) there has been an increase, from year to year, in the number of Legislative Bills having reference to the promotion of health and the prevention of the spread of disease. Numerous statutes have been enacted for the improvement of preexisting laws, and many entirely new and advanced measures have been added for the improvement of the administrative functions of both the State and local boards of health. act to improve the local sanitary inspection service, approved April 8, 1903, and which becomes operative January 1, 1905, promises to place, in the course of a few years, the supervision of sanitary precautions in the hands of men who have been trained for the duties of their calling. When this desirable change in the efficiency of local inspectors shall have been fully consumated, New Jersey will take a leading position in sanitary administration, and the innovation will doubtless prove to be warmly welcomed in every municipality and township.

#### VITAL STATISTICS.

The classification of the causes of death under the international system, which was adopted with the beginning of the year 1901, has greatly increased the value of the mortality records,

and the complete tabulation by districts having 5,000 or more inhabitants, has made the figures far more useful than they were under the system previously employed in the preparation of records of deaths. The change in the termination of the statistical year from June 30 to December 31, was made for the purpose of rendering the records of New Jersey comparable with those of other States and countries. This change is also advantageous because it affords more time in which to receive and tabulate delayed returns, but it necessarily delays the publication of the statistical tables. Under the new arrangement the report of the Bureau of Vital Statistics for each calendar year is filed October 31 of the year following.

#### DECREASE IN MORTALITY.

Every disease in any way preventable by hygienic measures has shown decrease in frequency and fatality in New Jersey, but there are still many unnecessary deaths, especially from tuberculosis, diphtheria and diarrhœal diseases of children, notwithstanding that it is in these groups that the greatest improvement in mortality has already been secured. Education has been the potential factor in reaching the results already attained, and further progress in lowering the death-rate depend upon the extent to which the principals of hygiene can be disseminated. Much reliance is placed by this board upon the superior service which we believe will be rendered by the higher class of local sanitary officers created by the provisions of chapter 215 of the laws of 1903, for under the intelligent guidance of well informed officials whole communities can be led to see the dangers which lurk in polluted wells, contaminated milk, open privies, dust, mosquitoes and flies, and action for the abatement of nuisances of this character follows, soon or later, if the parties interested are fully convinced of the injurious nature of these evils. We may, therefore, look forward with confidence to a further reduction in the mortality due to diseases already recognized as preventable, and doubtless others will from time to time be added to the list.

#### PUBLIC WATER SUPPLIES.

The enforcement of the law to prevent the polution of public water supplies has been unremittingly continued, and this service we believe is among the most useful departments of the work performed by this board. The details of the inspections made, notices sent and sources of pollution removed will be found in the body of this report.

#### FOOD AND DRUGS.

The enforcement of the act to prevent the sale of adulterated food and drugs has been continued and a decided improvement has been observed in the proportion of the samples found to be below the standard fixed by law. The number of samples purchased by the inspectors, and forwarded to the laboratory for examination, has been larger than during any previous year, and the analytical work performed in the State laboratory of hygiene has been prompt and satisfactory.

#### BACTERIOLOGICAL DIAGNOSIS.

Laboratory examinations for the detection of diphtheria. typhoid fever, tuberculosis, glanders, anthrax, malaria and certair other affections, have been continued daily without interruption. This service has become essential to the early and positive recognition of those diseases which are produced by bacterial causes, and physicians throughout the State rely upon it for the prevention of errors in diagnosis when dealing with the dangerous communicable diseases. In this connection attention is called to the advisability of producing attenuated anthrax virus for the immunization of cattle in the districts bordering the Delaware river in Salem and Cumberland Counties. Outbreaks of anthrax have in recent years appeared with increasing frequency in those portions of the State referred to, and the only safe preventive is to regularly immunize the cattle of the locality each spring, before they are turned out to graze upon the lands along the river and its tributaries. The experience which the board has had in the use of the virus shows that the efficiency of the commercial article cannot be relied upon, and therefore it should be prepared and distributed directly under the supervision of the director of the State laboratory. As the manufacture of this virus is attended with considerable risk to animals and human beings in the vicinity of the plant where the work is conducted, we recommend that a suitable building in a proper location be provided for this purpose.

#### GLANDERS.

We urgently recommend that a sufficient appropriation be made by the legislature to enable the board to prevent the introduction of glandered horses into the State, and to break up the business of importing sick horses from New York into New Jersey for the purpose of selling them.

#### MEETINGS.

The meetings of the board, both stated and special, are uniformly well attended, and the records of the past ten years show that a quorum has been present at every meeting which has been called. During the year ending October 31, 1904, six meetings were held. Stated meetings are held quarterly, and special meetings are called when business demanding immediate attention is presented.

Respectfully submitted,

HENRY B. RUE, WILLIAM H. MURRAY, GEORGE P. OLCOTT, CYRUS F. BRACKETT, LABAN DENNIS, HENRY W. ELMER, HENRY MITCHELL.

## Secretary's Report.

To the Board of Health of the State of New Fersey:

Gentlemen:—The close of the year 1903 marks the termination of the fifth quinquennial since the establishment of the bureau of vital statistics in New Jersey, and the statements of marriages, births and deaths herewith presented are grouped into twenty-five-year tables for convenience in studying the vital statistics of the State. The tabulations for 1879-1900 were made for the statistical year ending June 30, but commencing January 1, 1901, the statistical year ends December 31st.

Births.—The number of births recorded in New Jersey during the year ending December 31, 1903, was 37,242. The following table shows the number of certificates of births received and recorded during the past twenty-five years:

(7)

TABLE I.—SHOWING POPULATION, NUMBER OF BIRTHS REPORTED, NUMBER OF MARRIAGES AND NUMBER OF DEATHS IN NEW JERSEY, WITH BIRTHRATES, MARRIAGE RATES AND DEATH RATES FOR THE TWENTY-FIVE YEARS ENDING DECEMBER 31, 1903.

		BIR	BIRTHS.	MARRIAGES	IAGES.	DEA	DEATHS.
YEAŘ.	Population.*	Number of births reported.	Birth-rate per 1,000 popula- tion.	Number of marriages.	Number of married per Number marriages. 1,000,popu- deaths. lation.	Number of deaths.	Death-rate per 1,000 popula- tion.
1879	1,020,584	23,116	22.65	960'1	13.91	20,440	20.03
1880	1,130,892	23,680	20.94	7,963	14.08	18,907	10.77
1882	1,100,275	23,404	10.42	8.837	13.96	25,052	21.82
1883.	1,200,048	24.430	20.21	9,166	15.16	23,310	19.28
1884	1,248,224	25,263	20.20	8,968	14.37	21,716	17.40
1885	1,278,033	24,077	18.84	8,089	18.07	23,007	10.03
1887	1,310,431	27.440	20.36	15.416	22.06	24,331	18.12
1888	1,375,227	28,074	20.41	16.025	23.31	27,173	19.76
1889	1,4076,25	29,099	20.67	15,726	22.34	26,543	18.80
1890	1,441,017	30,103	20.89	15,564	21.60	28,530	19.80
1891	1,478,784	28,882	19.53	15,305	20.70	28,840	19.50
1803	1,511,053	30,027	20.08	17.178	22.33	30,596	19.88
1804	1,578,373	33,662	21.33	16,245	20.58	30,004	60 61
:	1,672,942	31,742	18.97	15,873	18.98	30,634	18.31
1896	1,718,543	31,207	18.16	18,370	21.38	30,767	17.90
1897	1,764,144	31,595	16.71	18,171	20.60	20,822	10.90
1898.	1,810,008	32,515	96.71	13,213	14.59	27,337	15.11
1899	1,855,872	29,419	15.84	13,336	14.37	30,999	10.70
1900	1,883,669	32,270	17.13	14,611	15.51	31,474	10.02
1901	1,925,781	34,812	18.08	16,539	17.18	31,739	10.48
1902	1,967,893	35,116	17.84	18,150	18.45	31,319	15.91
1903	2,016,797	37,242	18.47	10,512	10.35	31,820	15.87

\*Estimated except for census years.

Note.—The reports of births are not as complete as are those for marriages and deaths, hence the above table does not represent with accuracy the relation between birth-rates and death-rates.

Note.—The large number of marriages reported during the years 1886-1897 was due to the unrestricted authority contained in the laws for the performance of the marriage ceremony in the case of non-residents, and the marked decrease in the number of marriages which occurred in 1898 was directly consequent upon the enactment of the law requiring a license in cases where both parties are non-residents of the State.

The act requiring that certificates shall be prepared and filed showing certain facts relating to every birth, marriage and death has proved to be well adapted to the purpose in view, except in the case of births. The section of the law which requires reports of births is violated in every district of the State and the records of births are therefore incomplete and mislead-This failure to obey the laws is not altogether due to wilful disregard of its provisions, for many children are born without the presence of a professional attendant, and in many instances the parents are ignorant of the requirements of the law. These conditions are not peculiar to New Jersey, but are met with in all of the registration States and cities in the United States. Suggestions for the improvement of the present method for obtaining certificates of births have been numerous, and almost all of these proposals have involved additional legislation, some of them designed to increase the penalties for failure to report births, others increasing the fees to be paid for the preparation of the certificates by physicians, midwives, parents The difficulty of enforcing the law has been and householders. mainly due to the indifference, negligence or lack of information on the part of local registrars, for it has been observed that in localities where the local officer is keenly attentive to his duties few births escape his knowledge, and the records are very nearly accurate. The most serious obstacle therefore in the way of the collection of more complete reports of births appears to be the incompetency of the local officials who are entrusted with the duty of collecting the certificates. The excellent results attained in the city of Newark, and in several other sanitary districts, show that painstaking efforts to trace up every birth and obtain a properly prepared certificate will reduce the defects of the system to small proportions. In view of the improvement in the quality of the local health officials which will undoubtedly attend the progress already being made under the provisions of chapter two hundred and fifteen of the laws of 1003, there seems to be ground for expectation that a change for the better will gradually occur in the collection of records of births, for when men who are qualified to estimate at their true value the records of births, marriages and deaths, and who comprehend that it is upon these data that all intelligent efforts for the promotion of the public health are founded, are

placed in charge of the work of gathering these facts for study and guidance in conducting the operations of the health department, there will be great advances made in collecting the returns of births.

Marriages.—In previous annual reports it has been shown that the large number of marriages recorded during the twelve years 1886-1897 was due to the enactment of a marriage-license law in Pennsylvania. The passage of a similar act in this State in 1897 at once restored the marriage rate to its nominal figures. Table 2 shows the number of marriages in New Jersey, and the number of persons married per 1,000 inhabitants, for twenty-five years.

TABLE 2.—SHOWING NUMBER OF MARRIAGES RECORDED IN NEW JERSEY FOR THE TWENTY-FIVE YEARS ENDING DECEMBER 31, 1903.

YEAR.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.
Marriages in New Jersey	7,096	7,963	8,109	8,837	9,166	8,968	8,989	12,351	15,416
Persons married per 1,000 population	13.91	14.08	13.98	14.86	15.16	15.37	14.07	18.85	22.96
YEAR.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.
Marriages in New Jersey	16,025	15,726	15,564	15,305	16,082	17,178	16,245	15,873	18,370
Persons married per 1,000 population	23.31	22.34	21.60	20.70	21.28	22.33	20.59	18.98	21.38
YEAR.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.
Marriages in New Jersey	18,171	13,213	13,336	14,611	16,539	18,150	19,512		
Persons married per 1,000 population	20.60	14.50	15.40	15.51	17.23	18.45	19.35		

Deaths.—During the year ending December 31, 1903, 31,-820 deaths occurred in New Jersey. The population is estimated to be 2,016,796, and the death-rate for the year is therefore 15.78. Reference to the following tables will show that this is the lowest annual mortality for the State thus far recorded with the exception of the year 1898, when the rate was 15.10. Compared with the deaths which occurred during the previous year, the diminished mortality for 1903 is found to have been due, in part, to a smaller number of deaths from certain of the preventable affections, as follows: Typhoid fever caused 60 more deaths in 1902 than in 1903; small-pox caused 416 more; measles, 163; whooping cough, 36; and diarrhoeal diseases of children, 275.

TABLE 3.—POPULATION OF NEW JERSEY, BY COUNTIES, FOR THE CENSUS YEARS 1880, 1885, 1890, 1895, 1900, AND ESTIMATED POPULATION FOR 1903.

	188o.	1885.	1890.	1895.	1900.	1903
Atlantic	18,704	22,356	28,836	34,750	46,402	53,394
Bergen	36,786	39,880	47,226	65,251	78,441	86,257
Burlington	55,403	57,558	58,528	59,117	58,241	58,241
Camden	62,942	76,685	87,687	100,104	107,643	112,166
Cape May	9,765	10,744	11,268	12,855	13,201	13,400
Cumberland	37,687	41,982	45,438	49,815	51,193	52,020
Essex.'	189,929	213,764	256,098	312,000	359,053	387,285
Gloucester	25,886	27,603	28,649	31,101	31,905	32,333
Hudson	187,944	240,342	275,126	328,680	386,048	420,829
Hunterdon	38,570	37,420	35,355	35,334	34,507	34,507
Mercer	58,061	66,785	79,978	85,538	95,365	101,261
Middlesex		56,180				
Monmouth	52,286		61,754	70,058	79.762	85,584
	55,538	62,324	69,128	75,543	82,057	85,965
Morris	50,861	50,675	54,101	59,536	65,156	68,528
Ocean	14,455	15,586	15,974	18,739	19,747	20,352
Passiac	68,860	83,374	105,046	133,227	155,202	168,447
Salem	24,579	25,373	25,151	26,084	25,530	25,530
Somerset	27,162	27,425	28,311	30,447	32,948	34,449
Sussex	23,539	22,401	22,259	22,586	24,134	25,063
Union	55,571	61,839	72,467	85,404	99,353	107,722
Warren	36,589	37.737	36,553	37,283	37,781	38,080

table 4.—population of the cities of new Jersey Having 5,000 inhabitants or over for the census years 1880, 1885, 1890, 1895 and 1900, with estimated population for 1903.

•	1880.	1885.	1890.	1895.	1900.	1903.	
Atlantic County-	i	ł	İ	1			
Atlantic City	5,477	7,942	13,055	18,329	27,838	33,272	
Bergen County— Englewood	i			]	6,253	6,745	
Hackensack			6,004	7,282	9,443	10,739	
Burlington County—	1		0,001	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0,110	10,100	
Bordentown	5,334	5,857		5,176	4,110	4,110	
Burlington	7,237	7,690	7,264	7,844	7,392	7,392	
Camden County Camden City	41.659	52.884	58.313	63.467	75.935	79.811	
Gloucester City.	5.347				6,840	7,209	
Cumberland County-		0,500	0,001	0,220	0,010	1,200	
Bridgeton	8,722	10,065			13,913	14,660	
Millville	7,660	8,824	10,002	10,466	10,588	10,757	
Essex County— Bloomfield			7 700	0.000	0.000	10.010	
Fast Orango			7,708 13,282	8,093 17,927	$9,668 \\ 21,506$	10,613 23,972	
East Orange			13,262	3,388	5,255	6,375	
Montclair			8,656	11,753	13,962	15,555	
Montclair	136,508	152,988	181,830	215,806	246,070	265,394	
Orange	13,207	15,231	18,844	22,792	24,141	25,731	
West Orange			4,358	5,854	6,889	7,510	
Hudson County— Bayonne	9.372	33.080	19.033	19,856	32,722	36.829	
Harrison		6,806		9.672	10,596	11,274	
Hoboken	30,999	37,721	43,648	54,083	59,364	64,080	
Jersey City	120,722	153,513	163,003		206,433	219,462	
Kearny Town of Union. West Hoboken West New York				10,487	10,896	12,045	
West Hebelson	5,849	8,398	10,613 11,665	13,336 18,296	15,187 23,094	16,549 26,523	
West New York			11,005	10,290	5,267	5.425	
Mercer County-			1		0,201	0,120	
Chambersburg							
Trenton	29,910	34,386	57,458	62,518	73,307	76,766	
Middlesex County—	17 166	10 050	19,603	19.910	20,006	20,426	
New Brunswick Perth Amboy South Amboy	17,100	10,200	9.512	13.030	17,699	20,420	
South Amboy			4.330	5.571	6,349	7.016	
				0.0.1	, ,		
Long Branch		5,140	7,231	7,333	8,872	9,795	
Red Bank		· • · • · • •	4,145	4,888	5,428	5,752	
Morris County— Dover			1	<b>Y</b>	5,938	6,488	
Morristown	6.837	8,760	8.156	10,290	11,267	12,200	
Passaic County-	1 ' '	0,.00	0,100	10,200	11,201	12,200	
Passaic City		<b>.</b>	13,028	17,894	27,777	32,452	
Paterson	51,031		78,347	97,344	105,171	113,217	
Salem County— Salem City	5,056	F 010	E 510	6 007	F 011	5 011	
Somerset County—	5,050	5,316	5,516	6,337	5,811	5,811	
North Plainfield				4.245	5.009	5,468	
Union County	1			·		-,	
Elizabeth	28,229	32,119		43,834	52,130	56,441	
Plainfield	8,125	8,913	11,267	13,629	15,369	16,599	
Rahway		6,861	7,105	7,945	7,935	7,935 5,813	
Warren County—				4,450	5,302	0,013	
Phillipsburg	7,181	8,058	8.644	9.081	10.052	11,975	
		.,,,,,,	- 0,011	0,001	10,002.		

TABLE 5.—DEATHS AND DEATH RATES IN NEW JERSEY, 1878—1903.

			DEATH	I RATES.	
YEARS.	Deaths from all causes.	Death- rate per 1,000 living.	Five-year period.	Ten-year period.	Twenty- five-year period.
1879	20,440 18,967 20,312	20,03 16.77 17.94	19.09		
1882	25,959 23,310	19.28		18.71	
1884	21,716 23,807 22,734	.807			
1887	27,173 19.76		J		
1889	26,543 28,530 28,840	18.86 19.80 19.50	19.93		18.23
1893	32,685 30,596	19.88	]	} 18.70	
1894	30,004 30,634 30,769	19.09 18.31 17.90	17.46		
1898	29,822 27,337	16.90	]	J	
1899 1900	30,999 31,474 31,739	16.70 16.62 16.48	16.32		
1902	31,319 31,820	15.91 15.87	]]		J

### 14 REPORT OF THE BOARD OF HEALTH.

CHART SHOWING DEATH RATES IN NEW JERSEY PER 1000 INHABITANTS FOR TWENTY-FIVE YEARS, 1879—1903.

YEAR	1879	1880	/88/	/882	/883	788⊄	/885	/886	/887	/888	/889	/890	/88/	7887	/893	<b>≯68</b> /	568/	968 /	/897	7.898	668/	006/	1061	79 05	/903
DEATH-RATE Per 1000 INHABITANTS	20.03	/6.77	17.94	21.82	/9.28	17.40	/8.63	/235	18/2	/9.76	/886	19.80	19.50	27.62	/988	19.09	/8.3/	17.90	/6,90	11811	16.70	/6.62	/6.48	/88/	15.87
22.00				•																					
21.50	-		_	М	_		L		Н	_		_		٨	-		Н	-	Н		_		-	Н	Н
21.00				1/ 1		L.								Д	_			L	Ш				Ш	Ш	Щ
20.50				L											\_										
20.00													I		$\mathbf{I}$										
19.50	$\square$				I					^		$\langle$	J												
19.00			$\Box$		7					7	$\overline{}$					1	П								
18.50			П		1						•					7									
/ 8.00			V				N		Z																
17.50						V																	•		
17.00								•																	
16.50															Γ				1		1				
16.00			Γ												Γ		Г	Γ.	$\sqcap$		1				
/5.50															Γ		Γ		Г	1				٦	-
15.00				Π			Г								Г				1	۷					

TABLE 6.—SHOWING NUMBER OF DEATHS FROM CERTAIN CLASSIFIED DISEASES FOR TWENTY-FIVE YEARS, 1879-1903.

DISEASES.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.
Acute lung diseases	2,160			2,752				2,300	
Consumption, M	2,788	2,714	2,989	1,696	1,527	1,557	1,673	1,651	
Consumption, F Diarrhœal diseases of chil-	• • • • • •			1,779	1,594	1,658	1,647	1,554	1,743
	1,849	2,166	2,305	2,792	2,656	2,462	2,845	2,664	2,694
Adult brain and spinal dis-	1,010	2,100	2,000	2,.02	2,000	2,102	2,010	2,001	2,00
eases	1,314	1,347	1,502	1,521	1,562	1,664	1,895	1,932	1,966
Brain and nervous diseases									
_ of children	1,647	1,638	1,642	1,999	1,683	1,598	1,791	1.774	1,886
Diseases of heart and circu-	972	982	1.213	1.181	1.235	1.324	1.503	1,506	1.530
Diphtheria and croup	1,100		1.128	1,472	1,146			1,303	1,530
Digestive and intestinal dis-		010	1,120	1,412	1,140	1,021	1,400	1,000	1,021
eases	1,041	1,005	1,080	740			1,140	1,213	1,242
Renal and cystic diseases	558			765	759			926	873
Violent deaths				793	907		857	997	1,05
Cancer	378			402	461	484		546	574
Typhoid Fever	324 627	373 573	574 499		564 853	640 547	642 646	545 222	522 258
Scarlet fever	194	244	303	244	198			257	263
Whooping cough	277		110		189		181		181
Malarial fever	268			379	290			243	217
Measles	77	87	70	206	131	189	135	88	296
Erysipelas	137			94	90				96
Acute rheumatism		64	89	52				68	132
Small-pox		15	254	367	54	7	2	4	
Total deaths per year	15,797	15,542	17,539	25,910	23,310	21,716	23,807	22,734	24,331

TABLE 6.—CONTINUED.

DISEASES.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.
Acute lung diseases	2,922	2,862	3,804	4,101	3,187	3,974	4,183	4.597	4,146
Consumption, M	1,723	1,772	1,903	1,849	1,851	1,790	1,831	1,860	1.786
Consumption, F	1,635	1,677	1.767	1,607	1,724	1.637	1,602	1,682	1,572
Diarrhœal diseases of chil-								-,	_,
dren	3,508	3,377	3,527	3,191	4,043	3,981	3,893	3,746	3,807
Adult brain and spinal dis-								· 1	-,
eases	2,095	1,991	2,308	2,333	2,457	2,611	2,413	2,626	2,610
Brain and nervous diseases									
of children	1,971	1,923	2,032	2,029	2,242	2,072	2,083	1,925	2,018
Diseases of the heart and			<b>-</b>						
circulation	1,691	1,786			2,183	2,179	2,112	2,268	2,412
Diphtheria and croup	2,036	1,574	1,575	1.737	1,776	1,677	1,294	1,464	1,587
Digestive and intestinal dis-					1 005				
eases	1,476	1,450	1,521	1,573	1,625	1,753	1,565	1,589	1,622
Renal and cystic diseases	1,020	1,056	1,149	1,200	1,444	1,441	1,447	1,523	1,584
Violent deaths	1,320	1,077	1,235	1,365	1,427	1,538	1,500	1,469	1,426
Cancer	612	579	640	642	688 628	723	731	770	811
Typhoid fever	620	724	782	695		506	485	568	577
Scarlet fever	574 271	533 254	209 250	288 296	1,008 282	445 282	272 293	264	183
Puerperal	161	278 278	371	290 299	163	237	328	' 294 272	283
Whooping cough	264	203	195	180		148	162		275
Measles	74	118	174	250		73	257	95	119 390
Erysipelas	128	114	81	85	94	74	237 97	95 74	390 69
Acute rheumatism	142	117	106	76	100	102	91	82	59
Small-pox	5	<sup>**</sup> 3			38	43		23	2
Total deaths per year	27,173	26,543	28,530	28,840	32,685	30,596	30.004	30,634	30.767

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TABLE 6 .- CONTINUED.

diseases.	1897.	1898.	1899.	1900.	1901.	1902.	1903.
Acute lung diseases	4.039	3,414	4.322	4.795			
Consumption, M	1,765	1,772	1,956	1,787	3257	3015	3,380
Consumption, F	1,472	1,453					
Diarrhœal diseases of chil-							
dren	3,450	2,958	3,568	3,010	1,895	1,878	1,603
dult brain and spinal dis-	0.500	0.700	0.040	0.040			
eases	2,582	2,700	2,842	2,946			
of children	1,809	1,642	1,950	1 767			
Diseases of the heart and	1,608	1,012	1,800	1,,0,			
circulation	2,475	2,286	2,731	2,852	2,772	3.066	3,166
Diphtheria and croup	1,382	950	777	927	683	683	748
ligestive and intestinal dis-	-,	-		••••			
eases	1,572	1,484	1,556	1,700		2,042	2,060
enal and cystic diseases	1,752	1,694	1,925	2,072	2,043	2,021	2,160
iolent deaths	1,685	1,451	1,724	1,724	2,153	1,775	2,010
ancer	857	852	946	921	1,042	1,031	1,132
yphoid fever	478	450	486	356	352	428	388
carlet fever	203	201 264	187 267	220 288	179 207	217 225	299 279
Puerperal	278 321	155	282	306	157	281	245
falarial fever		82	96	84	50	36	40
feasles	156	195	96	231	77	204	41
rvsinelas	68	58	88	ĩĩi	71	69	86
rysipelas	69	55	73	73	116	94	71
nall-pox				5	142	432	16
Total deaths per year	00 000		20.000	01.454	01.500	01.010	01.000

Note.—Total deaths as given include deaths under one month, which are not classified.

TABLE 7.—DEATHS IN NEW JERSEY, PER 10,000 POPULATION, FROM CERTAIN CLASSIFIED CAUSES FOR TWENTY-FIVE YEARS.

CAUSES OF DEATH	1879.	1880.	1891.	1882.	1883.	1884.	1885.	1886.	1887.
Acute lung diseases	21.16	17.57						17.55	
Consumption	27.31	23.99	25.76	29.21	25.81	25.75	25.97	24.45	27.20
Diarrhoeal diseases of chil-	18.11	10 15	19.43	15.06	21.96	19.72	22.25	20.32	20.06
dren	10.11	19.10	10.40	10.00	21.80	19.72	22.20	20.32	20.00
eases	12.87	11.91	12.94	12.78	12.91	13.38	14.82	14.74	13.64
Brain and nervous diseases				i					
of children	16.13	14.48	14.15	16.80	13.92	12.80	14.01	13.53	14.04
Diseases of heart and circu-		0.00		0.00					
_ lation	9.52 10.86	8.68 7.71			10.21 9.47		11.75		11.39
Diphtheria and croup Digestive and intestinal dis-	10.50	7.71	9.72	12.37	9.47	6.21	11.70	9.94	11.37
eases	10.20	8.88	9.30	6.22	7.63	8.62	8.91	9.25	9.24
Renal and cystic diseases.	5.46	4.56		6 43	6.27	7.14		7.06	6.50
Violent deaths		'	'. <b>.</b> !	6.60	7 50		6.59	7.60	7.82
Cancer.	3.70		3.88	3.37	3.81	3.87	3.80	4.15	4.21
Typhoid fever			4.94	7.43	4.66	5.12	5.02		3.83
Scarlet fever	6.14 1.90	$\frac{5.06}{2.15}$	4.30 2.61	10.09	7.05	4.38	5.05		1.89
Puerperal	2.71	1.14	1.02	2.05 2.12	$\frac{1.63}{1.56}$	$\frac{1.77}{.92}$	2.09 .41	$\frac{1.96}{2.09}$	1.95 1.34
Whooping cough	2.62	2.59	3.74	3.10		1.84	1.62	1.85	
Measles		.76	.60	.78	1.08	1.51		.67	2.20
Erysipelas		.96	1.06	. 79	.74	.64	.57	.60	.71
Acute rheumatism	.74	.56	.76	. 43	.27	. 49	. 28	.51	99
Small-pox		.13	2.18	3.08	. 44	. 56	.01	.03	.03

TABLE 7.—CONTINUED.

CAUSES OF DEATH.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.
Acute lung diseases	21.74	20.83	26.39	27.73	34.31	25.82	26.50	27.49	24.12
Consumption	24.41	24.50	24.46	3.37	23.64	22.28	21.77	21.17	19.53
Diarrhœal diseases of chil-								1	
dren	25.50	23.99	24.47	21.57	26.74	25.87	24.66	22.39	22.1
Adult brain and spinal dis-								i	
eases	15.23	14.14	16.01	15.77	16.25	16.96	15.28	15.69	15.19
Brain and nervous diseases									
of children	14.33	13.66	14.10	13.72	14.83	13.46	12.11	11.50	11.7
Diseases of heart and circu-	1							1	
lation		12.68			14.41	14.16		13.55	14.03
Diphtheria and croup	14.80	11.18	10.92	11.74	11.74	10.89	8.19	8.75	10.23
Digestive and intestinal dis-			1					ŀ	
eases	10.73	10.30		10.63				9.49	9.4
Renal and cystic diseases.	7.41	7.50	7.97	8.11	9.55	9.36	9.16	9.10	9.2
Violent deaths	9.59	7.65	8.57	9.23	9.48	9.99	9.50	8.78	8.2
Cancer	4.45	4.11	4.41	4.34	4.55	4.69	4.63	4.60	4.7
Typhoid fever	4.50		5.42	4.69	4.15	3.28	3.07	3.39	3.3
Scarlet fever	4.17	3.78		1.94	6.66	2.89	1.72	1.57	1.0
Puerperal	1.97	1.80	1.73	2.00	1.86	1.83	1.85	1.75	1.6
Whooping cough	1.17	1.97	2.57	2.07	1.07	1.54	2.07	1.62	1.6
Malarial fever	1.91		1.35	1.21	1.30	.96	1.02	.85	1.69
Measles	. 53	. 83	1.20	1.69	1.30	.47	1.62	.56	2.2
Erysipelas	. 93	.80	.56	. 57	:62	.48	.61	. 41	. 4(
Acute rheumatism		.83	.73	.51	. 66	. 66	.57	.49	.34
Small-pox	.03	.02	!	l	. 25	.27	.06	.13	.0

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TABLE 7.—CONTINUED.

CAUSES OF DEATH.	1897.	1898.	1899.	1900.	1901.	1902.	1903.
oute lung diseases	22.89	18.86	23.29	25,21			
nsumption	18.34	17.81	19.31	18.48	16.91	15.32	16.76
		16.34	19.23	15.83	9.84	9.54	7.95
ren	14.63	14 01	15 01	15:40			
ases	14.63	14.91	15.31	15.49			
of children	10.25	9.06	10.53	9.29			
sases of neart and circu-	14.52	12.62			14.37	15.58	15.70
ohtheria and croup	7.83	5.24	4.19	4.87	3.55	3.74	3.71
ses	8.91	8.19	8.38				
al and cystic diseases.	9.92 9.55	9.85 8.01	10.37 9.29	10.90 9.00	10.45 11.20		10.71 9.97
cer	4.83	4.70	5.10	4.81	5.42	5.24	5.61
noid fever	2.70 1.15	2.48 1.11	$\frac{2.62}{1.01}$				
rperal	1.57	1.45	1.44	1.51	1.70	1.14	1.38
ooping cougharial fever	1.81	.85 .45	$1.51 \\ .52$	1.61 .40	.82 .26	1.43	
sles	.88	1.47	. 52	1.21	.40	1.04	.20
ipelas		$.32 \\ .31$	. 47 . 39	. 58 . 38	.37 .60	.35 .43	
l-pox					.74	2.20	

<sup>\*</sup>Deaths under this classification were not separately recorded for these years.

TABLE 8.—SHOWING DEATHS FROM CERTAIN SPECIFIED DISEASES FOR THE YEARS ENDING DECEMBER 31ST, 1902, AND DECEMBER 31ST, 1903. ALSO SHOWING AVERAGE NUMBER OF DEATHS FROM SAID DISEASES DURING PAST TWENTY-FIVE YEARS.

DISEASES.	Average	Deaths	Deaths
	number of	during year	during year
	deaths for	ending De-	ending De-
	twenty-five	cember 31st,	cember 31st,
	years.	1902.	1903.
Consumption. Diarrhœal diseases of children. Pneumonia*. Diseases of heart and circulation. Digestive and intestinal diseases. Diphtheria and croup. Renal and cystic diseases. Violent deaths. Cancer. Typhoid fever. Scarlet fever. Puerperal. Whooping cough. Malarial fever. Measles Erysipelas Acute rheumatism. Small-pox.	3,318 2,953  1,973 1,450 1,284 1,293 1,155 688 544 432 260 234 188 156 90 81	3,015 1,878 2,421 3,066 2,042 683 2,021 1,170 1,031 428 217 225 281 36 204 69	3,380 1,603 2,628 3,166 2,060 748 2,160 2,010 1,132 388 299 279 245 40 41 86 71

<sup>\*</sup>Deaths from pneumonia were not separately recorded until the year 1901.

CHART SHOWING DEATHS IN NEW JERSEY FROM CERTAIN SPECIFIED DISEASES
FOR THE PAST TWENTY-FIVE YEARS, ARRANGED IN ORDER
OF GREATEST FREQUENCY.

DISEASES	NUMBER OF DEATHS	0000	20000	30,000	000.00	30,000	000′09	70,000.	80,000
Consumption	833 / 6								
Diarrhoeal Diseases of Children	74392								1
Diseases of Heart and Circulation	49372								1
Digestive and Intestinal Disease	35729				-				
Dyphtheria and Croup.	32254						•		
Renal and Cyslic Diseases	3/557								
Violent Deaths	29 05 6								
Cancer	17155		_						
Typhoid Fever	13414								
Scarlet Fever	10786								
Puerperal Fever	6567								
Whooping Cough	5867	· ·							
Malarial Fever	4733								
Measles ·	3890								
Erysipelas	2248	_							
Acute Rheumatism	1957	_							
Small Pox .	1328	_							

TABLE 9.—SHOWING MORTALITY IN NEW JERSEY FROM CERTAIN SELECTED CAUSES OF DEATH, FOR THE YEAR ENDING DECEMBER 31ST, 1903, COMPARED WITH DEATHS FOR THE PREVIOUS YEAR.

SELECTED DISEASES.	Deaths for year ending De- cember 31st, 1902.	Deaths for year ending De- cember 31st, 1903.	Com- parative Mortality.
Consumption	3,015	3,380	+ 365
Diseases of heart and circulation	3,066	31,66	+ 100
Renal and cystic diseases	2,021	2,160	· .
Digestive and intestinal diseases.	2,042	2,060	+ 139 + 18
Diarrhœal diseases of children!		1,603	
	′ • 1	, ,	<b>–</b> 275
Cancer.	1,031	1,132	+ 101
Diphtheria	683	. 748	+ 65
Typhoid fever		388	<del>-</del> 60
Scarlet fever	217	299	+ 82
Puerperal diseases	225	279	+ 54
Whooping cough	281	245	- 36
Erysipelas	69	86	+ 17
Acute Rheumatism	84	71	- r3
Measles	204	41	- 163
Malarial fever	36	40	+ 4
Small-pox		16	- 416

TABLE 10.—SHOWING NUMBER OF DEATHS IN NEW JERSEY FOR THE YEAR END-ING DECEMBER 31ST, 1903, FROM TEN SELECTED PREVENTABLE DISEASES, WITH PERCENTAGE OF TOTAL MORTALITY.

NAME OF DISEASE.	Deaths.	Percentage. of total mortality
Consumption	3,386 2,628	10.62
Diarrhœal diseases of children	1,603 748	5.04 2.35
Typhoid fever	388	1.22
Whooping cough	245 299	.77 .94
Measles	41	.13
Malarial fevers	40 16	.13

TABLE II.—SHOWING DEATH-RATE PER 1,000 POPULATION IN THE CITIES OF NEW JERSEY HAVING OVER 5,000 POPULATION, FOR TWENTY-FIVE YEARS, 1879—1903.

NAMES OF CITIES.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.
*Atlantic City Englewood			24.46	31.76	26.29	32.50	23.54	21.03	27.20
Hackensack		1							
Bordentown	16.82	16.89	16.31	16.88	16.87	19.68	15.88	15.88	13.32
Burlington				22.94		18.93	24.45		17.30
Camden	18.88	19.27	22.90	24.55		22.37	18.30	19.27	20.49
Gloucester			20.19	18.32		21.69	15.42	16.59	22.96
Bridgeton	13.72		19.72	23.85		18.69	17.78	11.92	16.19
Millville			22.71	17.75		18.54	16.89	15.75	16.55
Newark	25.26	18.71	21.12	28.66	25.49	24.70	24.38	23.94	24.40
Orange			18.02	25.44		22.03	19.70	19.95	21.14
Bayonne		15.04				22.19	18.58	23.78	23.16
Harrison		23.41	20.00			32.08	28.96	26.01	26.74
Hoboken	27.01	28.71	25.82	31.42	25.90	22.19	22.35	24.52	24.28
Jersey City	28.04	20.98	23.61	30.12	25.74	25.15	22.42	22.02	24.01
Town of Union		20.04	18.80	36.93	35.73	23.42	25.84	22.03	22.74
Trenton	26.08	20.68	18.89	20.53		21.13	17.48	15.12	17.80
New Brunswick	19.50	15.66		22.78		28.18	18.40	19.06	19.17
Perth Amboy								19.17	23.77
Long Branch		! <b>.</b>						12.84	14.00
Morristown	16.40	18.71	15.94	17.70	28.96	20.77	14.61	13.70	13.58
Passaic		21.78	19.44	22.82	20.82	23.58	16.64	21.02	22.82
Paterson		23.07	22.75	29.61	27.72	28.33	20.29	17.38	22.83
Salem		15.02	14.63	19.58	23.14	15.43	19.22	22.30	16.13
Elizabeth	18.20	15.58		21.68	24.30	20.93	21.70	18.90	22.32
Plainfield	18.01	12,06	16.00			16.25	15.82	17.17	17.17
Rahway	24.31		16.11	28.35		17.19	15.60	14.58	16.91
Phillipsburg							18.37	14.40	19.24

<sup>\*</sup>The death-rate in summer resorts is calculated on the basis of the resident population whereas the real population is often several times larger, and on account of this floating population and the large number of invalids included in it, the death-rate is not a criterion of health conditions.

TABLE 11.—CONTINUED.

			<u> </u>						
NAMES OF CITIES.	1888.	1889.	1800.	1891.	1892.	1893.	1804.	1895.	1896.
*Atlantic City		26.93	20.01	20.46	20.19	16.47	18.38	19.20	18.78
Englewood		• • • • •	· · · · ·		• • • • • •			17.50	.::.::
Hackensack	1.30.50		* 46 * 46	. 99. 49	66 56	20.71	13.50	15.52	
Bordentown					30.72	17.44	14.91	15.65	18.07
Burlington			18.30			18.82	25.47	18.87	19.28
Camden	22 79		23.15			22.06	23.35	22.07	19.97
Gloucester			18.89			24.77	20.73	23.78	28.13
Bridgeton	17.69		17.70			17.62	16.38	16.85	14.41
Millville		13.43	19.48	16.51	16.62	15.23	13.79	17.01	15.34
Montelair								]	13.90
Newark			27.26	23.69		24.67		21.52	20.79
Orange	24.49		24.50	20.29	23.31	20.38	19.37	18.69	19.89
Bayonne	26.38	24.24	20.37	20.37	21.11	19.74	19.71	22.51	20.52
Harrison	28.50	26.65	27.67	31.70	28.27	26.50	22.17	25.12	25.45
Hoboken	28.13	25.57	25.62	25.41	26.97	23.97	24.63	22.98	22.59
Jersey City	25.93	22.66	25.96	26.60	27.78	26.67	25.32	24.61	23.61
Town of Union	24.77	19.74	22.42	26.05	20.80	20.31	18.97	17.62	15.86
Trenton		14.94	17.35	15.51	19.75	16.16	14.14	18.01	18.60
New Brunswick	19.28		17.71	17.51	24.60	16.31	17.96	17.38	20.03
Perth Amboy			17.41	23.05		19.71	18.47		17.84
South Amboy				20.00			10.1		
Long Branch	20.04	12.41	14.66	12.16	12.40	10.85	9.88	14.18	12.51
Morristown.						18.55	19.04	18.56	18.85
Passaic				23.77	22.27	21.64	20.07	21.57	22.26
Paterson				22.95		21.00	20.31	18.25	19.22
			17.60	16.86	19.58	17.42	20.49	16.69	16.77
			19.30	19.41	21.19	20.22	18.95	18.23	18.05
Elizabeth			16.89			19.21	17.33	17.39	18.37
Plainfield				16.87					
Rahway	20.41		19.32			23.87	18.76	18.12	17.13
Phillipsburg	. □ 13.28	15.98	14.96	15.75	14.77	14.20	13.50	20.71	14.70

TABLE 11.—Continued.

NAMES OF CITIES.	1897.	1808.	1899.	1900.	1901.	1902.	1903.	Aver. for 25 yrs
Atlantic City		16.89	19.03	17.85	10.85	16.28	15.33	
inglewood	.   '		17.57	17.75	15.74	16.45	15.86	
ackensack	. 14.49	11.43	14.94	13.66	17.52	18.34	16.39	
ordentown	. 14.78	18.17	17.35	19.46	16.55	17.27	18.73	17.5
urlington	.i 18.20	14.28	16.87	24.76	19.75	21.28	22.46	20.1
amden	. 20.71	17.82	19.35	14.11	17.56	16.90	16.05	20.4
loucester	. 25.61	18.31	19.50	19.88	11.27	21.03	17.89	20.2
Bridgeton	. 15.02	13.10	13.74	14.38	13.32	13.89	13.78	16.2
fillville	. 9.67	12.38	13.38	15.78	14.61	16.27	14,13	16.5
Bloomfield					14.55	13.50	11.21	1
East Orange				10.97	9.71	10.94	9.72	l
rvington	. ]	:			9.24	14.66	12.86	1
Montelair	. 10.63		13.00	15.11	16.87	14.48	17.42	1
Vewark	. 19.60	16.65	19.40	19.60	19.14	18.71	18.47	22.8
Orange			18.19	20.63	17.45	20.26	20.40	20.4
Vest Orange	.	. <b></b> J			13.25	10.27	10.52	
Bayonne		25,00	25.59	17.39	16.38	15.32	18.44	21.1
Iarrison.			19.18	22.37	21.24	19.33	18.63	
Ioboken			19.91	23.01	18.67	18.80	17.70	23.6
ersey City			19.78	20.34	19.12	18.65	18.82	23.2
Cearny						17.45	17.68	
own of Union	14.70	13.58	11.63	14.16	11.25	16.39	16.07	
West Hoboken						12.95	11.76	
West New York						14.85	11.98	
Crenton		15.45	17.71	16.42	16.35	17.19	18.30	18.0
New Brunswick			16.04	21.29	18.18	20.00	19.43	19.3
erth Amboy		14.93	16.16	14.46	16.53	14.82	12.70	10.0
South Amboy.		13.14	12.65	13.86	16.14	19.52	15.68	
ong Branch		18.13	17.51	18.15	24.07	21.50	20.21	
Red Bank.		10.10	11,.01	13.10	16.44	12.58	12.52	
Dover		15.73	14.34	12.46	16.01	15.39	13.87	
forristown		17.38	19.18	16.38	18.50	16.64	17.95	18.4
Passaic		19.84	23.64	20.99	18.22	17.74	20.03	10.7
aterson		15.89	19.65	18.70	17.53	16.37	15.28	21.4
alem		18.30	18.30	20.13	14 11	16.00	17.21	21.4
Jorth Plainfield		20,00	20.00	20.10	12.40	12.44	13.17	1
Clizabeth		15.50	17.25	17.69	17.17	15.30	16.55	19.1
Plainfield				16.01	16.36	15.94	15.84	
Rahway		14.30	16.67	15.50	14.87	17.52	15.50	16.9
		14.30	10.07	15.00		11.81	14.28	18.3
ummit.		10 40	19 60	10 10	14.62			1:44:
hillipsburg	. 10.75	10.40	10.00	12.13	14.34	15.04	10.44	16.13

Consumption.—The number of deaths certified as being caused by pulmonary tuberculosis was 3,380, or 16.76 per 10,000 inhabitants. The following tables show the number of deaths recorded in New Jersey from this cause during the past twenty-five years.

TABLE 12.—SHOWING NUMBER OF DEATHS AND DEATHS PER 10,000 POPULATION FROM CONSUMPTION IN NEW JERSEY FOR TWENTY-FIVE YEARS.

YEARS.	Population.*	Number of deaths from con- sumption.	Deaths from consumption per 10,000 population.
1870.	1,020,584 1,130,892 1,160,275 1,189,658 1,209,048 1,248,224 1,278,033 1,310,431 1,342,829 1,375,227 1,407,625 1,441,017 1,478,784 1,511,653 1,538,799	2,788 2,714 2,989 3,475 3,121 3,215 3,320 3,205 3,653 3,653 3,456 3,575 3,429	27.32 24.00 25.76 29.21 25.81 25.76 25.19 24.46 27.20 24.42 24.50 25.46 23.37 23.65 22.28
1893 1895 1896 1897 1898 1899 1900 1901 1902	1,578,373 1,578,373 1,672,942 1,718,543 1,764,144 1,810,008 1,855,872 1,883,669 1,925,781 1,967,893 2,016,797	3,429 3,433 3,542 3,358 3,237 3,225 3,584 3,514 3,257 3,015 3,380	22.25 21.75 21.17 19.54 18.35 17.82 19.31 18.64 16.91 15.32

<sup>\*</sup>Estimated except for census years.

TABLE 13.—SHOWING THE PROPORTION OF DEATHS FROM CONSUMPTION TO TOTAL DEATHS DURING TWENTY-FIVE YEARS.

YEARS.	Total deaths in New Jersey.	Deaths from consump- tion.	Proportion of deaths from consumption to total deaths.
1879. 1880. 1881. 1882. 1883. 1884. 1885. 1886. 1887. 1888. 1889. 1890. 1891.	20,444 18,967 20,810 25,910 23,310 21,716 23,807 22,734 24,331 27,173 26,543 28,543 28,840	2,788 2,714 2,989 3,475 3,121 3,215 3,320 3,653 3,653 3,456 3,669 3,456	13.64 14.30 14.36 13.41 13.39 14.80 13.94 14.10 15.01 , 12.44 12.99 12.96 11.98
1892 1893 1894 1895 1896 1897 1898 1900	32,685 30,596 30,604 30,767 29,822 27,337 30,999 31,474 31,739	3,575 3,429 3,433 3,542 3,358 3,237 3,225 3,514 3,514 3,257	10.94 11.21 11.44 11.56 10.92 10.85 11.756 11.17
1902 <b>E</b> 903	33,655 31,820	3,015 3,380	8.96 10.62

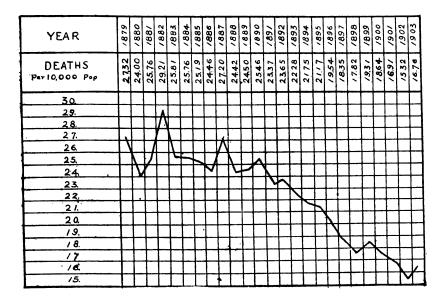
TABLE 14.—SHOWING DEATHS IN NEW JERSEY FROM CONSUMPTION, WITH AGES OF DECEDENTS, FOR YEAR ENDING DECEMBER 31, 1903.

	-		-						AGE	PE	RIOD	5.		-	,					
PROM CONSUMPTION.	Under 1 month.	Under 1 year.	1 to 5	to	10 to 15	to	20 to 25	25 to 30	30 to 35		to	45 to 50		to	to	to	80 to 90	Vei	Not stated.	Total.
	5	44	55	26	54	231	429	512	511	366	351	183	167	143	191	95	14	2	1	3,38

TABLE 15.—SHOWING DEATHS FROM CONSUMPTION IN NEW JERSEY, COMPARED WITH DEATHS FROM ALL CAUSES, BY COUNTIES.

		AVERAGES	PER YEAR.			
COUNTIES.	FOR TWEE		YEAR ENDING DE- CEMBER 31, 1903.			
COUNTIES.	Deaths from consumption.	Deaths from all causes.	Deaths from consumption.	Deaths from all causes.		
Atlantic County Bergen County Burlington County Camden County Cape May County Cumberland County Essex County Gloucester County Hudson County Hunterdon County Mercer County Middlesex County Monmouth County Morris County Ocean County Passaic County Salem County Somerset County Sussex County Union County Warren County	95 754 786 786 186 118 123 102 37 265 50	542 409 889 1,700 168 263 5,407 432 6,465 489 1,377 1,058 1,063 483 249 2,154 432 285 1,306	75 96 83 210 19 80 848 30 878 24 176 100 107 71 263 50 36 25	815 1,181 936 1,836 177 706 6,615 383 7.532 482 1,662 1,243 1,174 1,027 202 2,055 364 427 230 1,638 535		
The State	3,318	27,248	3,380	31,820		

CHART SHOWING DEATHS FROM CONSUMPTION IN NEW JERSEY PER 10,000 POP-ULATION FOR THE TWENTY-FIVE YEARS ENDING DECEMBER 31, 1903.



Diarrhœal Diseases of Children.—The number of deaths under 5 years has diminished almost continuously during the past decade. This improvement has been altogether out of proportion to the decrease in the general death-rate and it is mainly due to the low mortality caused by the preventable The average annual deaths in this group, from diarrhoeal diseases, per 10,000 inhabitants, during the first ten years for which vital statistics were recorded in this State, numbered 20.20, while during the last ten years (1894-1903) the average has been 14.48, and the annual rate for the past three years has been as follows: 1901, 9.84; 1902, 9.54; 1903, 7.95. Compared with the period 1879-1888, the deaths from diarrhoal diseases of children during the past three years have been reduced 44 per cent. The causes which have led to the great reduction in the death-rate of children under 5 years of age are still at work, and still greater improvement is in prospect. A revolution has been commenced in the conduct of dairy farms, and clean milk is, to a limited extent, already being sent to market. Physicians have thus far been the agents through whom the saving of nearly 50 % of the child life of the State has been effected, and health officers are now actively proceeding to educate dairymen and milk dealers and to bring them to a realizing sense of the importance of aseptic methods in the handling of infants' food. One of the factors which has doubtless served an important part in lowering the mortality among children is the establishment and extension of public water supplies in New Jersey, and the consequent elimination of many domestic wells and other dangerous sources of water supply. The contamination of food by flies is also receiving attention, and a movement for the abolishment of open privies is making progress. The following ordinance to prevent the spread of disease through the agency of flies has been adopted in one of the seaside resorts.

Section 2. Any person or corporation violating the provisions of this ordinance, shall on conviction, forfeit and pay a penalty of twenty-five dollars.

Every pile of fresh horse dung is a prolific breeding place for flies, and active measures by local boards of health are justifiable for the enforcement of requirements which will compel owners of horses in built-up districts to dispose of the solid excrement of these animals in a manner which will prevent its becoming a nuisance. On one of the largest dairy premises in the State, it is the practice to dispose of the stable manure daily by spreading it upon the lands of the farm, and this is believed by the managers of the establishment to be a more economical use of the excreta than to pile it up and allow decomposition to occur before it is placed in the fields.

CHART SHOWING DEATHS IN NEW JERSEY AMONG CHILDREN UNDER FIVE YEARS OF AGE PER 10,000 POPULATION, FOR TWENTY-FIVE YEARS.

<del></del>																									
YEAR	/879	1880	/88/	/882	/883	/884	/885	/886	/887	/888	/889	/890	/88/	7897	/893	/894	/895	7896	/897	1898	668/	006/	106/	/902	1903
DEATHS AMONG CHILDREN UNDER 5 YEARS Pet 10,000 Pop.	77.49	65.49	65.64	8836	72.40	63.85	77.35	65.14	68.84	76.40	73.55	14.58	72.25	8/82	73.54	58.69	54.23	56.11.	48.21	40.23	5630	55.11	49.59	49.87	44.38
88.	Γ		Г	A			Г							П	Г	_							Ť		
86				Π			Г							П					П	_					
84	Г	Γ		П			Г												П	_				П	
82				П		_	Г								П					_	_				
80	Ι.			Г									Г	•	П			-						П	
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70.	Г	Γ	П	Γ	$\sqcap$		1		7						$\sqcap$	_					_		_		
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44					<u> </u>		Ι-	Г					П	П	$\vdash$		7	-	-	H	-	1	$\vdash$	H	+
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40												Ι.	Т	П			-		-	۲	╁╴	1-	-	$\vdash$	<u> </u>

TABLE 16.—SHOWING DEATHS AMONG CHILDREN UNDER FIVE YEARS OF AGE IN NEW JERSEY PER 10,000 POPULATION, FOR TWENTY-FIVE YEARS.

YEARS.	Deaths under 1 year per 10,000 popula- tion.	Deaths from I to 5 years per 10,000 popula- tion.	YEARS.	Deaths under 1 year per 10,000 popula- tion.	Deaths from 1 to 5 years per 10,000 population.
1879. 1880. 1881. 1882. 1883. 1884. 1885. 1886. 1887. 1888. 1889.	45.58 40.38 39.90 49.88 44.48 41.04 44.69 41.31 43.56 47.51 48.61 49.38	33.97 25.12 25.75 38.48 28.22 22.82 26.67 23.83 25.29 28.90 24.95 25.38	1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901	46.90 52.74 49.22 49.75 45.67 43.91 38.22 37.05 36.11 36.18 37.08	25.36 29.08 24.26 22.97 21.79 24.43 20.00 15.83 17.04 18.44 13.48 13.63 15.38

TABLE 17.—SHOWING DEATHS IN NEW JERSEY FROM DIARRHŒAL DISEASES OF CHILDREN, WITH AGES AT DEATH, COMPARED WITH DEATHS FROM ALL CAUSES AMONG CHILDREN UNDER FIVE YEARS OF AGE, FOR YEAR ENDING DECEMBER 31, 1903.

AGE PERIODS.	Deaths from diarrhœal diseases.	Deaths from all causes among children under five years of age.
Under one month	114 1,141 348	2,091 4,105 2,754
Total	1,603	9,950

TABLE 18.—SHOWING NUMBER OF DEATHS IN NEW JERSEY AMONG CHILDREN UNDER FIVE YEARS OF AGE IN MANUFACTURING DISTRICTS, AND ALSO IN COUNTIES OUTSIDE OF THE LARGER TOWNS, WITH COMPARATIVE MORTALITY.

NAMES OF MANUFACTURING TOWNS	Estimated Population, 1903.	Number of deaths occurring in children under five years of age.	Number of deaths of children under five years of age for each 1000 of population.	Estimated population of counties outside of larger cities.	Number of deaths occuring in children under five years of age in counties outside of larger cities.	Number of deaths of children under five years of age for each 1000 of population in counties outside of larger cities.
Bayonne (Hud. Co.)	36,829	276	8.49	12,489	122	9.77
Beverly (Bur. Co.)	1,964	16	3.05	46,750	166	3.55
Boonton (Mor. Co.)	4,151	18	4.34	50,186	122	2.48
Bordentown (Bur. Co.)	4,110		3.41	46,739	166	3.55
Bound Brook (Som. Co.)		13	4.55	34,408	58	1.69
Bridgeton (Cumb. Co.)	14,660	43	2.97	27,031	65	2.40
Burlington (Bur. Co.)	7,392	47	6.36	46,749	166	3.55
Camden (Cam. Co.)	79,811	438	5.49	24,868	106	5.97
Carlstadt (Ber. Co.)	2,818	18 3.12	6.39	68,718	195	2.84
Elizabeth (U. Co.)	56,441	3.12	5.53	20,459	53	2.59
Garfield (Ber. Co.)	3,544	62	17.49	68,718	195	2.84
Gloucester City (Cam. Co.)	7,209	42	5.83	24,868	106	4.26
Hoboken (Hud. Co.)	64,080	340	5.45	12,489	122	9.77
Jersey City (Hud. Co.)	219,462	1,246	5.68 3.23	12,489	122 47	9.77 1.36
Lambertville (Hunt. Co.)	4,643	15 21	3.23	34,507	195	
Lodi (Ber. Co.)	2,123			68,718	86	2.84 3.99
Millburn (E. Co.)	2,867 561	14 5	4.88 8.91	21,562	115	3.22
Millville (Cumb. Co.)	10.757		4.65	35,708 27,081	65	2.40
Newark (E. Co.)	253,294	1,334	5.11	21,562	86	3.99
New Properties (Mdr. Co.)	20.426	130	6.36	35.708	115	3.22
New Brunswick (Mdx. Co.) Orange (E. Co.)	25,731	152	5.91	21,562	86	3.99
Passaic City (Pas. Co.)	32,452	385	1.19	24,813	80	3.22
Paterson (Pas. Co.)	113.217	503	4.44	24.813	80	3.22
Perth Amboy (Mdx. Co.)	20,156	119	5.90	35,708	115	3.22
Phillipsburg (W. Co.)		45	3.76	27.729	75	2.70
Plainfield (U. Co.)	16.599	74	4.46	20.459	53	2.59
Rahway (U. Co.)	7,935	27	3.40	20,459	53	2.59
Raritan (Som. Co.)	3.464	15	4.33	34,408	58	1.69
Riverton Bor. (Bur. Co.)	2.849	-ŏ		46,739	166	3.55
Salem City (Salem Co.)	5,811	21	3.62	19,719	67	3.40
South River (Mdx. Co.)	2,792	8	2.86	35,708	115	.322
Town of Union (Hud. Co.)	16,549	73	4.41	12,489	122	9.77
Trenton (Mer. Co.)	76,766	369	4.69	22,058	59	2.67
Vineland (Cumb. Co.)	4.468	14	3.13	27,081	65	2.40
Wharton (Mor. Co.)	2.069	21	10.15	50.186	122	2.43

TABLE 19.—SHOWING DEATHS IN JERSEY CITY, ALSO DEATHS AMONG CHIL-DREN UNDER FIVE YEARS OF AGE; DEATHS UNDER FIVE YEARS FROM DIARRHŒA AND DEATHS UNDER FIVE YEARS PER 10,000 INHABITANTS.

YEARS.	1901	1902	1903
Total deaths in Largey City	4,038	4,026	4 7 10
Total deaths in Jersey City	1,426	1,442	4,130 1,325
Deaths under five years from diarrhœa Percentage of deaths under five years	213	270	242
to total deaths	35.31	35.81	32.08
population	67.53	66.78	60.37

TABLE 20.—SHOWING DEATHS IN PATERSON, ALSO DEATHS AMONG CHILDREN UNDER FIVE YEARS OF AGE; DEATHS UNDER FIVE YEARS FROM DIARRHŒA, AND DEATHS UNDER FIVE YEARS PER 10,000 INHABITANTS.

YEARS.	1901	1902	1903
Total deaths in Paterson	1,816 637	1,773 630	1,730 505
Deaths under five years from diarrhœa Percentage of deaths under five years	246	112	91
to total deaths	3.508	36.00	29.11
population	69.36	59.00	44.60

TABLE 21.—SHOWING DEATHS IN NEWARK, ALSO DEATHS AMONG CHILDREN UNDER FIVE YEARS OF AGE; DEATHS UNDER FIVE YEARS FROM DIARRHŒA AND DEATHS UNDER FIVE YEARS PER 10,000 INHABITANTS'.

YEARS.	1901	1902	1903
Total deaths in Newark	4,615 1,489 431	4,831 1,516 216	4,901 1,386 199
Percentage of deaths under five years to total deaths	32.27	31.38	28.28
population	59.06	58.72	52.22

TABLE 22.—SHOWING DEATHS IN HOBOKEN, ALSO DEATHS AMONG CHILDREN UNDER FIVE YEARS OF AGE; DEATHS UNDER FIVE YEARS FROM DIARRHŒA, AND DEATHS UNDER FIVE YEARS PER 10,000 INHABITANTS.

YEARS.	1901	1902	1903
Total deaths in Hoboken	1,164	1,156	1,140
Deaths under five years	375	403	349
Deaths under five years from diarrhœa Percentage of deaths under five years	125	51	55
to total deaths	32.22	34.86	30.61
population	62.07	65.55	55.14

TABLE 23.—SHOWING DEATHS IN CAMDEN CITY, ALSO DEATHS AMONG CHIL-DREN UNDER FIVE YEARS OF AGE; DEATHS UNDER FIVE YEARS FROM DIARRHŒA, AND DEATHS UNDER FIVE YEARS PER 10,000 INHABITANTS.

YEARS.	1901	1902	1903
Total deaths in Camden City  Deaths under five years  Deaths under five years from diarrhœa	13.69 522 155	13.68 436 58	12.81 448 63
Percentage of deaths under five years to total deaths	38.13	31.87	34.97
Deaths under five years per 10,000 population	66.56	55.60	56.13

Pneumonia.—The deaths recorded as having been due to pneumonia numbered 2,628, this being 207 more than were reported from this disease during the preceding year. Reference to table 24 shows that pneumonia is second only to pulmonary tuberculosis as a cause of death in New Jersey, having caused 8.26 per cent., or about one-twelfth of the total mortality. Until 1901 pneumonia was included in the general classification "acute lung diseases," and therefore the comparative mortality from this disease can only be shown for the past three years.

TABLE 24.—SHOWING DEATHS IN NEW JERSEY FROM PNEUMONIA, WITH AGE AT DEATH, FOR THE YEAR ENDING DECEMBER 31, 1903

							-	AG	E P	ERIO	DS.								
DEATHS. FROM PNEUMONIA.	Under 1 Year.	1 to 5	to	to	to	20 to 25	to	to	to	to	to	to	to	to	to	80 to 90	ě	Not Stated.	1.4.5
	419	380	73	24	50	83	109	127	140	136	125	128	157	305	261	99	10	2	126

TABLE 25.—SHOWING DEATHS FROM PNEUMONIA IN CITIES OF OVER 5,000 IN-HABITANTS, IN NEW JERSEY, BY MONTHS, FOR THE YEAR ENDING DECEM-BER 31, 1903.

Deaths from	1					h	MON	гнв.						
Pneumonia in cities of over 5.000	Estimated Population.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
inhabitants.	1,363,464	271	288	261	128	155	67	98	58	75	91	202	278	1 972

Diphtheria.—Seven hundred and forty-eight deaths were caused by diphtheria during the year, and of these 391, or 52%, occurred in children over 1 and under 5 years of age. The average annual mortality in New Jersey from diphtheria and croup for the first ten years of the period during which records of vital statistics have been kept, 1879-1888, was 1,310, while for the six years 1898-1903, when the use of antitoxin was generally resorted to, the average annual deaths, notwithstanding the great increase in population, numbered only 476. When stated per 10,000 inhabitants this diminution in the mortality from diphtheria is found to be more striking, for the average number of deaths from this disease during the nineteen years, 1879-1897, per 10,000 inhabitants, was 10.40, while the average for the six years 1898-1903 was only 4.22.

The spread of diphtheria from convalescents, and from those who are not ill, but who are carrying the diphtheria bacilli in their throats, is believed to be more frequent than from patients who are acutely affected with the disease, and it appears improbable that this mode of transmission will be controlled until the public is better informed concerning the dangers which attend contact of the lips with articles liable to con-. vey the infection. Health officers will be justified in requiring that laboratory examinations shall be made of cultures from all patients and also from all persons, including nurses and attendants who have been exposed to the disease, and the isolation restrictions should be continued until at least two consecutive negative reports have been received. It has in some cases been found that virulent diphtheria bacilli subsequently appeared after three negative examinations, but in these individuals the bacilli were harbored by enlarged tonsils.

TABLE 26.—SHOWING DEATHS IN NEW JERSEY FROM DIPHTHERIA, WITH AGES OF DECEDENTS, FOR YEAR ENDING DECEMBER 31, 1903.

ì

AGE PERIODS.	Deaths from diphtheria.	AGE PERIODS.	Deaths from diphtheria.	AGE PERIODS.	Deaths from diphtheria.
Under 1 month.	3	25 to 30	ı	60 to 70	ī
Under 1 year	39	30 to 35	4	70 to 80	2
1 to 5		35 to 40	3	80 to 90	I
5 to 10	238	40 to 45	o	Over 90	0
10 to 15		45 to 50	0	Not stated	2
15 to 20		50 to 55	I		
20 to 25	6	55 to 60 .	r	Total	748

CHART SHOWING DEATHS FROM DIPHTHERIA, PER 10,000 POPULATION IN NEW JERSEY, FOR THE TWENTY-FIVE YEARS ENDING DECEMBER 31, 1903.

YEAR	/879	1880	1881	1882	/883	/884	1885	/886	1887	/888	/889	1890	/88/	1892	/893	/894	1895	968/	1897	1898	668/	0061	1061	1905	1903
DEATHS FROM DIPHTHERIA Per 10,000 Pop.	10.86	14.2	9.72	12.37	3.47	8.27	1.70	9.94	11.37	14.80	11/8	10.92	11.74	1174	1 0.89	8.19	8.75	1022	7.83	5.24	617	4.87	3.55	5.47	3.69
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/4. 00			L							Λ	_				L			L	L	_		_	╙	Ш	Ц
13.00	Γ									V								L			L	L	L		
12.00			Г	_							1				L_	L	L	_	<u> </u>		L	<u> </u>	L		Ш
11.00				N			$\square$	L	L		1	L			_	L	L	L	L.	<u></u>	L	L	L		Ш
.0.00	$\Box$						L	otag	<u></u>			$\subseteq$	L		$\Box$	L	L	A	L	_	L	_	_	Ш	Ш
9.00			V		7	L	乚	Ľ	_	L	L	<u> </u>	L	_	L-	<b>A</b> -	1	$\Box$	Ļ.		<u> </u>	ļ	<b> </b>	<u> </u>	
3.00	L	$\Lambda$	<u>/_</u>	L	L	m Y	L	L	<u>_</u>	L_	<u> </u>	<u>_</u>	L	<u> </u>	-	1	_	Ļ	1	<u> </u>	<u> </u>	L	<u> </u>	├-	Н
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6.00										L		L			L	L	L	L		_	L		L	1_	
5.00															L	L	L	L	L	otag	L	L	L	L	
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1.00			l	Ī				L.		<u> </u>					_	_			L	L.		L_	L	L	Ш

Cancer.—The number of deaths in New Jersey from cancer has continued to increase throughout the entire period during which mortality records have been made in this State, and the variations in the increase of the annual fatalities from this affection have been slight. The etiology of this disease has thus far eluded all investigations, notwithstanding the fact that much scientific thought and skillful research has been devoted to its discovery. Not enough evidence has been collected, showing that cancer is communicable to warrant its being included among the notifiable diseases, and sanitarians are still powerless to stay its ravages. The opinion has prevailed that the increased number of deaths certified as having been due to cancer has been in part owing to more accurate diagnoses on the part of medical practitioners, but the records of the years 1001 and 1003, show the surprising increase of over one hundred deaths from cancer each year, which is a much greater annual increase than has before occurred, and seems to demand some new hypothesis for its satisfactory explanation. The following tables and chart show the deaths which have been recorded from cancer during the past twenty-five years.

TABLE 27.—SHOWING DEATHS FROM CANCER IN NEW JERSEY FOR TWENTY-FIVE YEARS.

YEARS.	1879.	1880.	1881.	1882.	<b>1883</b> .	1884.	1885.	1886.	1887.
Deaths from cancer	378	425	451	402	461	484	498	546	574
Deaths from cancer per 10,000 inhabitants	3.70	3.75	3.88	3.37	3.81	3.87	3.89	4.15	4.21

YEARS.	1888.	1889.	1890.	1891.	1892.	1893.	16	1895.	1 96.
Deaths from cancer	612	579	640	642	688	723	731	770	11
Deaths from cancer per 10,000 inhabitants	4.45	4.11	4.41	4.34	4.55	4.69	4.63	4.60	4.71

YEARS.	1897.	1898.	1899.	1900.	1901.	1902.	1903.
Deaths from cancer	857	852	946	921	1,042	1,031	1,132
Deaths from cancer per 10,000 inhabitants	4.33	4.70	5.10	4.84	5.43	5.24	5.61

TABLE 28.—DEATHS FROM CANCER IN NEW JERSEY FOR THE YEAR ENDING DECEMBER 31, 1903, PER 10,000 POPULATION, BY COUNTIES AND BY CITIES OF OVER 5,000 INHABITANTS.

NAME OF PLACE.	Deaths from cancer.	Deaths pe 10,000 pop lation.
Atlantic County.		5.80
Atlantic CityBergen County		5.11 3.35
Englewood.		7.41
Hackensack		5.58
Burlington County	. 40	8.56
Burlington City	. 3	4.06
Camden County	. 13	5.23
Camden City		6.01
Gloucester City		2.77 2.98
Cape May County		8.49
Bridgeton		4.77
Millville		9.30
Essex County		8.35
Bloomfield	. 8	7.54
East Orange	. 10	4.17
Irvington	. 2	3.14 3.86
Montclair Newark.		6.71
Orange.		4.28
West Orange		7.99
Gloucester County.		8.36
Hudson County	. 15	1.20
Bayonne	. 20	5.43
Harrison		2.66
Hoboken	. 32	4.99
Jersey City	. 126	3.74
Kearny Town of Union.	11 11	9.13 6.64
West Hoboken		6.79
West New York.		3.69
Hunterdon County.		7.53
Mercer County	. 14	6.35
Trenton		6.77
Middlesex County	. 10	5.32
New Brunswick	. 11	5.38
Perth AmboySouth Amboy	. 5	2.48 8.55
Monmouth County.	. 40	5.71
Long Branch.		4.08
Red Bank		6.95
Morris County		3.39
Dover		
Morristown		8.20
Ocean County	11 10	5.42 4.03
Passaic County	. 16	4.93
Paterson.	. 68	6.01
Salem County.		7.61
Salem City	. 4	6.88
Somerset County	. 11	3.20
North Plainfield.	. 6	1.10
Sussex County		3.10
Union County		5.14
Plainfield		6.02
Rahway.	. 4	2.41
Summit		
Warren County.	. 18	6.49
Phillipsburg	. 8	6.68
Matalia sitias of some # 000 inhabitants	779	1
Total in cities of over 5,000 inhabitants	1.132	1 .
10tal 10t State	. 1,102	5.61

TABLE 29.—DEATHS FROM CANCER IN NEW JERSEY, SHOWING ORGANS AFFECTED, AND AGE AT DEATH, FOR THE YEAR ENDING DECEMBER 31, 1903.

CANCER.	Under 1 mo.	Under 1 year.		то	то	то	то	25 To	то	то	то	то	то	то	To	то	80 To		Are not stated	Totals.
Of the mouth Of the stomach and liver Of the intestines and rectum Of the female genital organs Of the breast Of the skin Others			2  1  2 3	   1	   i	i 	1 1 1 1 1	1 4 1 4 	7 2 7 2 8	17 4 10 6		28 6 19 10		3 60 9 16 12	21	1 67 8 19 21 1 60		1 1 1 	1	14 413 84 172 92 6 351
Totals	١	١	8	2	1	1	6	16	26	53	92	87	143	150	308	177	50	7	6	1132

CHART SHOWING DEATHS IN NEW JERSEY FROM CANCER, PER 10,000 INHABI-TANTS, FOR TWENTY-FIVE YEARS, 1879—1903.

YEAR	4481	/880	/88/	/882	/883	/884	7.885	1886	7887	/888	/889	/890	/88/	/892	/893	/894	/895	968/	7897	/898	/ 899	006/	/06/	1902	/903
DEATHS FROM CANCER Per 10,000 Pop.	3.70	3.75	3.88	3.37	3.87	3.87	3 89	4.15	12.4	4.45	411	441	4.34	4.55	4.69	4.63	4.60	17.4	4.83	4.70	8.10	4,84	5.43	5.42	2.67
5.60																									
5.40	П																						~		$\Box$
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3.80	Т		A				フ																		
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3.40	Т			$\Lambda$			╗																		
3 20	T			۸			┪			П															

Typhoid Fever.—The number of deaths from this disease during the year was 388. The mortality from typhoid fever has been gradually diminishing in New Jersey druing the past twenty years, and at present it compares very favorably with the death-rate from this disease in other localities in the United States and Europe. The average number of deaths from typhoid fever in New Jersey during the first decade (1879-1888) since the establishment of this bureau, per 10,000 inhabitants, was 4.62, while the average for the last decade (1804-1903) was only 2.51, a decrease of 54 per cent. The typhoid bacilli are eliminated in the urine and feces, and disinfection of these excretions, could it in every case be effectually accomplished, would soon exterminate this affection. Few wells near dwellings are free from defilement from waste fluids, and although they may long serve as sources of drinking water without apparent injury to health, even when pollution can be demonstrated, they speedily become capable of producing typhoid fever when the typhoid bacillus passes with other polluting material into the well. The bacilli must gain access to the alimentary canal in order to set up the changes which constitute the disease, and doubtless many unsuspected avenues of infection exist, but water and milk are known to be extremely liable to carry the specific bacilli. Oysters, clams, vegetables and flies have all been shown to be capable of transmitting the disease, and insufficiently cooked fish has also been charged with carrying virulent bacilli into the stomach. It thould be remembered however, that disinfecting the discharges from the patient will prevent all risk of spreading the infection, and the vehicles capable of transporting and distributing the germs, will then have been rendered innocuous. Unquestionably every case of typhoid fever is preventable, and if the sanitary authorities in the various districts throughout the State could be aroused to a realization of their responsibilities and opportunities, particularly in rural localities, a great reduction in the morbidity and mortality, due to typhoid fever, could be effected by intelligent and conscientious application of the recognized measures for the prevention of the disease, including the safe disposal of excreta, the closing of polluted wells, the introduction of cleanly methods in handling milk and other

food and the early diagnosis of cases by securing the forwarding of specimens of blood to the State laboratory of hygiene for examination.

TABLE 30.—SHOWING DEATHS PER 10,000 POPULATION FROM TYPHOID FEVER IN NEW JERSEY, FOR TWENTY-FIVE YEARS.

YEAR.	Popula- tion.*	Number of deaths from typhoid fever.	Deaths from typhoid fever, per 10,000 in- habitants.	YEAR	Popula- tion.	Deaths from typhoid fever.	Deaths from typhoid fever, per 10,000 in- habitants,
1879	1,020,584 1,130,892 1,160,275 1,189,658 1,209,048 1,248,224 1,278,033 1,310,431 1,342,829 1,407,625 1,407,625	574 884 564 640 642 542 522 620	3 29 4.94 7.43 4.66 5.12 5.02 4.15 3.88 4.50 5.14	1891 1892 1893 1894 1895 1896 1897 1898 1898 1900 1901 1902 1903	1,478,784 1,511,653 1,538,799 1,578,373 1,672,942 1,718,543 1,764,144 1,810,008 1,855,872 1,883,666 1,925,781 1,967,993 2,016,797	628 506 485 568 577 478 450 486 356 352 428	3.15 8.28 3.07 3.39 3.35 2.70 2.48 2.62 1.87 1.93 2 17

<sup>\*</sup>Population estimated except for census years.

TABLE 31.—SHOWING DEATHS FROM TYPHOID FEVER IN NEW JERSEY, FOR YEAR ENDING DECEMBER 31, 1903, AND SHOWING ALSO THE NUMBER OF DEATHS FROM THIS DISEASE IN URBAN AND RURAL DISTRICTS, TOGETHER WITH POPULATION AND DEATHS PER 10,000 INHABITANTS.

	Aggregate population.	Deaths from typhoid fever.	Deaths from typhoid fever, per 10,000 population.
State	2,016,797	388	1.93
	1,363,464	292	2.14
	653,333	96	1.47

TABLE 32.—SHOWING DEATHS IN NEW JERSEY, FROM TYPHOID FEVER, WITH AGE AT DEATH, FOR YEAR ENDING DECEMBER 31, 1903.

	AGE PERIOD.
NUMBER OF DEATHS FROM TYPHOID FEVER	

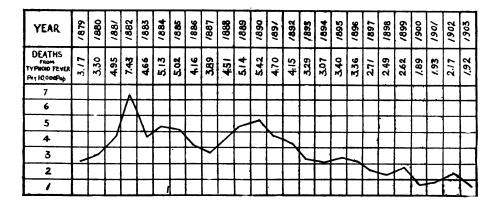
TABLE 33.—SANITARY DISTRICTS IN NEW JERSEY IN WHICH DEATHS FROM TYPHOID FEVER OCCURRED DURING THE YEAR ENDING DECEMBER 31, 1903, WITH POPULATION, NUMBER OF DEATHS, SOURCE OF WATER-SUPPLY AND NATURE OF DRAINAGE.

NAME OF SANITARY DISTRICT.	Estimated Population.	Number of deaths from typhoid fever.	Water Supply.	Drainage.
		_	_	
Acquackanonk Township	5,351	1	Domestic	No sewers.
Alloway Township	$\begin{array}{c} 1,528 \\ 33,272 \end{array}$	1 11	Domestic	No sewers. Sewers.
Atlantic City. Bayonne City.	36,829	9	Public Public	Sewers.
Belleville Township	5,907	2	Public	No sewers
Belmar Bo	902	ī	Public	Sewers.
BelvidereBernards Township	1,784	1	Public	Sewers.
Bernards Township	3,056	1	Domestic	
Boonton Clty	3,901	1	Public	
Bordentown CityBordentown Townshlp	4,110 488	5 1	Public	
Bridgeton	14,660	$\frac{1}{2}$	Public	
Bridgeton	1,646	ĩ	Domestic	
Burlington City	7,392	8	Public	Sewers.
Butler Borough		1	Domestic	No sewers.
Caldwell Borough	1,367	1	Domestic	
Camden City	79,811 1,951	8	Public	
Cliffside Park Borough	968	1 1	Public	No sewers.
Cranford Township.	2,854	i	Domestic	No sewers.
Delaware Township (Hunt)	1,953	2	Domestic	No sewers.
Depford	2,114	1	Domestic	
Dover City Eagleswood Township	6,488	2	Public	Sewers.
Eagleswood Township	568	1	Domestic	
East Greenwich. East Orange City.	1.323 23,972	$\frac{2}{2}$	Domestic Public	No sewers.
Elizabeth.	56,441	13	Public	Sewers.
Elmer Borough	1.140	i	Public	No sewers.
Englewood City Florence Township Franklin Township (Glou)	6,745	î	Public	
Florence Township	1,955	1	Domestic	No sewers.
Franklin Township (Glou)	2.252	1	Domestic	
Freehold	2,934 2,469	$egin{pmatrix} 2 \\ 2 \\ 2 \end{bmatrix}$	Public	
Gloucester City	7,209	2	Domestic Public	
Hackensack City	10.739	ว รื	Public	Sewers.
Hackensack City. Haddon Township.	2.012	$\frac{\bar{3}}{1}$	Domestic	
Haddonfield Borough	2,776	1	Public	Sewers.
Harrison City	11,274	$\frac{2}{2}$	Public	Sewers.
Harrison Township.	1,569 1,749	4.	Domestic Public	No sewers.
Hightstown Township	64,080	10	Public	No sewers.
Hopewell Borough (Mer.).	980	i	Public	Sewers
Howell Township.	3,103	ĩ	Domestic	No sewers.
Irvington	6,375	1	Domestic	No sewers.
Jersey City	219,462	36	Public	Sewers.
Kearny.	12,045	$egin{array}{c} 2 \\ 2 \\ 2 \\ 1 \end{array}$	Public	Sewers.
Knowlton Township.	1,210 4,637	2	Domestic Public	No sewers.
Landis Townshlo	1,658	í	Domestic	No sewers.
Lawrence Township.	1,555	i	Domestic	
Linwood Borough	402	1	Domestic	No sewers.
Long Branch	9,795	5	Public	Sewers.
Lower Penn's Ncck	1,424	1	Domestic	No sewers.
Madison Borough	3,754 1,033	2 1	Public	No sewers.
Mannington.	1,033	1	Domestic	
Mansfield Township	13,24	i	Domestic	No sewers.
Mansfield Township	1,786	2	Public	No sewers.
Midland Township	1,298	1	Domestic	No sewers.
Millipurn Township	2,837	2	Domestic	No sewers.

TABLE 33.—SANITARY DISTRICTS IN NEW JERSEY IN WHICH DEATHS FROM TYPHOID FEVER OCCURRED DURING THE YEAR ENDING DECEMBER 31, 1903, WITH POPULATION, NUMBER OF DEATHS, SOURCE OF WATER-SUPPLY AND NATURE OF DRAINAGE.—Continued.

NAME OF SANITARY DISTRICT.	Estimated Population.	Number of deaths from typhoid fever.	Water Supply.	Drainage.
Millstone Townsh.p	1,509	1	Domestic	No sewers.
Millville City	10,757	2.	Public	Sewers.
Montclair	15,555	. 3	Public	
Montgomery Township	1,243	1	Domestic	
Morristown City	12,200	2	Public	
Neptune Township	7,943	1	Domestic	No sewers.
Newark	265,394	61	Public	Sewers.
New Brunswick	20,426	1		Sewers.
Northampton Township	5,168 9,213	3	Domestic	
North Plainfield	5,468	1	Public	No sewers.
Nutley Borough	0,400	1	Public	Sowers.
Ocean City	1,307	ī	Public	
Orange City	25,731	5	Public	
Passaic City.	32.452	. 5	Public.	
Paterson City	113.217	24	Public	Sewers.
Pemberton Township	1,493	i	Domestic	No sewers
Perth Amboy City	20,156	2	Public	Sewers.
Phillipsburg City	11,975	1	Public	Sewers.
Pittsgrove Township	2,092	2	Domestic	No sewers.
Plainfield City	16,599	7	Public	Sewers.
Pomptom Township	2,404	1	Domestic	No sewers.
Princeton Borough.	3,899	1	Public	
Prospect Park Borough		1		Sewers.
Rahway	7,935	3	Public	
Randolph Township	2,246	2 2	Domestic	
Raritan Township (Mon.)	1,524	2	Domestic	
Readington	2,670	1	Domestic	No sewers.
Ridgefield Township	$\frac{2,612}{3,298}$	. 1	Domestic	No sewers.
Roselle Borough.	1,652	i	Domestic Public	
Saddle River Township	1,954	$\overset{1}{2}$	Domestic	
Salem City	5,811	ĩ	Public	
Secaucus Borough	1.626	2	Domestic	
Somerville	4.843	ĩ	Public	Sowers.
South Amboy City	7.016	i	Public	
Southampton Township	1.904	î	Domestic	
South Brunswick	2,337	1	Domestic	
South Orange Township	1,630	ī	Domestic	No sewers.
Stillwater Township.	1,108	1	Domestic	No sewers.
Tewksbury Township	1,883	1	Domestic	No sewers.
Town of Union	16,549	2	Public	
Trenton	76,766	45	Public	
Vernon Township	1,738	1	Domestic	
Verona.	2,139	1	Domestic	No sewers.
Wall Township.	3,212	1	Domestic	
Washington Township (Glou.)	1,252	1	Domestic	No sewers.
Washington Township (Mer.)	1,157	1	Domestic	No sewers.
Wayne	$1,985 \\ 26.523$	1	Domestic	No sewers.
West Hoboken City	20,523 5,425	3 1	Public	ewers.
Woodbridge	5,425 7,631	1	Public	newers.
M OOGDINGE	7,001	•	Public	no sewers.

CHART SHOWING DEATHS FROM TYPHOID FEVER IN NEW JERSEY, PER 10,000 POPULATION. FOR TWENTY-FIVE YEARS.



Scarlet Fever.—The number of deaths from scarlet fever This is a considerable increase in the during the year was 200. mortality from this disease, and exceeds that of any year since 1893. The mild type which this disease has maintained during the past ten years is shown by comparing the average annual mortality from this affection, per 10,000 inhabitants, for the first ten years (1879-1888) since the establishment of this bureau with that of the last ten years (1894-1903). During the first of these decades the average was 4.97, and during the latter period it was 1.23, or 75% less than during the former. Discussions concerning the duration of the infectious period in scarlet fever have recently been actively renewed, and those who have maintained that the disease is conveyed by means of the desquamated cuticle have been put upon the defensive, and proof to sustain their opinions has not been satisfactorily presented. On the other hand it has been claimed that the disease is invariably spread through the agency of infectious discharges from the throat, nose and ears, and that patients who are convalescent from scarlet fever may safely be released from isolation restrictions without any reference to the desquamating of the skin, provided that the inflammatory processes affecting the throat, nose and ears have disappeared. These questions have serious import for health officers, and no one is at present warranted in declaring that they are finally settled. The difficulties and uncertainty which attend the continuance of isolation of scarlet fever patients until all desquamation has ceased, have caused much anxiety to every experienced and conscientious administrative officer, and a more definite guide than desquamation to indicate the termination of infectivity in this disease would be welcomed. No dissent has been expressed concerning the infectiousness of the discharges from the air passages and ears, and frequent syringing of the nose, ears and throat with a disinfectant is believed to have value as a prophylactic measure.

TABLE 34.—DEATHS FROM SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER IN NEW JERSEY FOR THE TWENTY-FIVE YEARS ENDING DECEMBER 31, 1903, COMPARED WITH TOTAL DEATHS.

				SCARLET	FEVER	DIPHTH	ERIA.	TYPHOID	FEVER
YEARS.	Popula- tion.	Total Deaths.	Death- rate per 1,000 popu- lation.	Number of Deaths.	Death- rate per 1,000 popu- lation.	Number of Deaths.	Death- rate per 1,000 popu- lation.	Number of Deaths.	Death rate per 1,000 popu- lation.
1879 1880 1881 1882	1,130,892	02,440 18,967 20,810 25,910	18.07 16.77 18.39 22.90 20.60	627 573 499 1,306 853	.61 .51 .43 1.01	1,100 873 1,128 1,472	1.09 .77 .97 1.24 .95	324 373 574 884 564	.32 .33 .49 .74
1884 1885 1886 1887		13,310 21,716 23,807 22,734 24,331	19.20 18.63 17.80 19.04	547 646 222 255	.44 .51 .17 .19	1,146 1,027 1,496 1,303 1,527	.82 1.17 .99 1.14	640 642 545 522	.47 .51 .50 .42 .39
1888 1889 1890 1891	1,441,017	27,173 26,543 28,530 28,840 32,685	17.01 18.99 19.80 19.50 21.62	574 533 209 288 1,008	.42 .38 .15 .19	2,036 1,574 1,575 1,737 1,776	1.48 1.12 1.09 1.17 1.17	620 724 782 695 628	.45 .51 .54 .47 .42
1893 1894 1895 1896	1,672,942	30,596 30,004 30,634 30,767 29,822	19.88 19.09 18.31 17.90 16.90	445 272 264 183 203	.29 .17 .16 .11	1,677 1,294 1,464 1,758 1,382	1.09 .82 .88 1.02 .78	506 485 568 577 478	.33 .31 .34 .34 .27
1898	1,883,669	27,337 30,999 31,474 31,739 31,319 31,820	15.11 16.70 16.62 16.48 15.91 15.78	201 187 220 179 217 299	.11 .10 .12 .09 .11	950 777 927 683 683	.52 .42 .49 .36 .35	450 486 356 352 428 388	.25 .26 .19 .19 .22 .19

CHART SHOWING DEATHS FROM SCARLET FEVER IN NEW JERSEY, PER 10,000 POPULATION, FOR TWENTY-FIVE YEARS.

YEAR	1879	/880	/88/	/882	/883	/884	1885	7886	/887	1888	/889	1890	/89/	/892	/893	/894	1895	9681	1681	8681	6601	0061	1061	7061	1903
DEATHS FROM SCARLET FEVER Per 10,000 Pop	6.74	5.06	430	10.09	7.05	438	5 05	69 /	68/	417	378	145	1.94	999	2.89	172	151	1.06	115	111	107	9/1	.80	01:1	148
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2.00			1		_	Γ		V	17				$\coprod$												Ш
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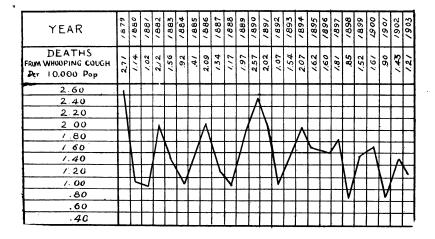
Whooping Cough.—This disease continues to cause an average of about 234 deaths in New Jersey from year to year, and thus far its spread has not been materially affected by sanitary regulations. Its insidious approach renders an early diagnosis difficult, and its fatality is so small, compared with the number of individuals whom it attacks, that the employment of isolation restrictions, even if they were capable of limiting the distribution of the disease, would not be sustained by public sentiment.

It is probable that more or less of the deaths which are certified as having been induced by bronchitis, emphysema, pneumonia, marasmus and cerebral hæmorrhage, are in fact due to whooping cough as a primary cause. Whooping cough not infrequently produces chronic invalidism, sometimes involving disturbances of the nervous system, visual defects and deafness, and it is worthy of the most painstaking efforts on the part of health boards to prevent its spread, but reasonable and effectual measures for its restriction have not yet been pointed out.

TABLE 35.—SHOWING DEATHS IN NEW JERSEY FROM WHOOPING COUGH WITH AGES OF DECEDENTS, FOR YEAR ENDING DECEMBER 31, 1903.

AGE PERIODS.	Deaths from whooping cough.	AGE PERIODS.	Deaths from whooping cough.	AGE PERIODS.	Deaths from whooping cough.
Under 1 month.					
			]		
Under 1 year	124	25 to 30		55 to 60	
1 to 5	106	30 to 35		60 to 70	
5 to 10	8	35 to 40	[	70 to 80	
10 to 15		40 to 45	[	80 to 90	2
15 to 20		45 to 50		Over 90	
Age not stated.	0	!		Total	. 245

CHART SHOWING DEATHS FROM WHOOPING COUGH IN NEW JERSEY, FOR THE TWENTY-FIVE YEARS ENDING DECEMBER 31, 1903, PER 10,000 POPULATION.



Measles.—The number of deaths caused by measles was 41. This is the smallest number of deaths recorded from this disease during any of the twenty-five years since the establishment of this bureau. Ninety-six per cent. of the deaths from measles, in New Jersey, occur in children uuder ten years of age. The records of this State, and experience in all parts of

this country and Europe, show that periodical outbreaks of this disease occur with much regularity, and no successful measures have thus far been devised to prevent these epidemics. high infectiousness of measles for one or two days before the appearance of the eruption; before the parents suspect that the cough and coryza indicate the onset of any serious affection, and before a physician is called to see the patient, permits the spread of the disease, particularly in the beginning of each outbreak, and when notification reaches the local sanitary officer. the opportunity to arrest the progress of the discase by isolation of the patient has passed. If parents would invariably consult a physician whenever a child is suddenly attacked with sneezing attended with more or less cough and red and watery eyes early diagnoses in measles would be possible, and the prevalence of the disease might be diminished, but until some measure shall be adopted which will give to health authorities immediate notice of the first symptoms of the disease, there will be no reason to expect improvement in the prevalence of this malady.

TABLE 36.—SHOWING DEATHS IN NEW JERSEY FROM MEASLES, WITH AGE AT DEATH, FOR YEAR ENDING DECEMBER 31, 1903.

AGE PERIODS.	Deaths from measles.	AGE PERIODS.	Deaths from measles.	AGE PERIODS.	Deaths from measles.
Under 1 month.					
Under 1 year	7				•
1 to 5	29			80 to 90	ı
5 to 10	4				• •
				Total	41

CHART SHOWING DEATHS IN NEW JERSEY FROM MEASLES, PER 10,000 POPULA-TION, FOR TWENTY-FIVE YEARS ENDING DECEMBER 31, 1903

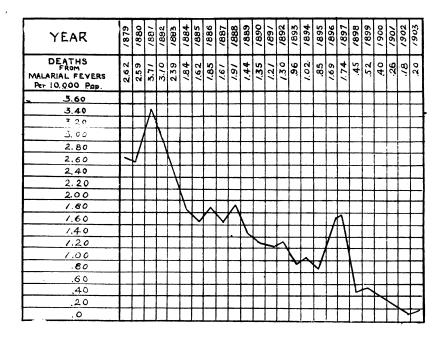
YEAR	1879	1880	/88/	1882	/883	/884	1885	/886	/887	888/	/889	/8\$0	/89/	/892	/893	1894	/895	/896	/897	/888	/889	0061	/06/	1902	1903
DEATHS FROM MEASLES Per 10,000 Pop.	.75	77.	62	7.82	9//	297	90 /	69×	2.32	<i>L</i> 5'	<b>78</b>	121	697	730	.47	/64	21	2.27	88	1.05	.52	1.23	40	104	.20
2.20									A									ı							
2.00									Λ									Λ							
1.80				1					I									Λ							
1.60				Λ		A							Δ			A		$\Box$							
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1.20		Г		Г	V		1			$\Gamma$		7		7		T						4			
1.00		Г		Г		Γ	T	$\Box$		П		7										Λ			
. 8 <i>0</i>		Г	$\Box$	Г	Г	Г	$\Box$	$\Pi$		Π	$\square$			Г	$\nabla$		M		V	7		$\Gamma$		Л	
-60	7	$\overline{}$	<b>リ</b>	Г			Γ	A	Г	$\Pi$	7				V		V				$\nabla$	Г	N		
.40	Г	Г	Г	Г		Г	Г	Г	Г	7				Г	1		1				V		V		
.20	Г		Γ	Π	Γ	Г	Γ.	Γ		Г	Γ	Г	Г						Г	Г			Γ		$\nabla$
10																									

Malarial Fever.—Forty deaths were certified as having been caused by malarial infection. Doubtless there has been more or less confusion in the minds of physicians in past years concerning the differentiation of this class of affections from certain other diseases, and until recently the term "typhomalarial" fever was often used in doubtful cases. In classifying deaths it has uniformly been the custom in this bureau to count all certificates in which the cause of death is stated as having been due to typho-malarial fever, as deaths from typhoid fever.

For the prevention of malaria local boards of health should make and enforce ordinances to require that no rain-water barrel, water-tank, cistern or other receptacle shall be maintained without being tightly screened or so covered that no mosquito can enter it; that no discarded cans or other rubbish capable of holding water shall be allowed to remain uncovered on any premises; that every cesspool or other receptacle for waste liquids shall be tightly screened and covered; that no pools of stagnant water shall be allowed to stand upon the ground surface. Frequent inspections should be made of all

premises, to learn if the regulations to prevent the breeding of mosquitoes are being observed, and prompt procecution should follow any violations which are discovered.

CHART SHOWING DEATHS FROM MALARIAL AFFECTIONS, PER 10,000 INHABI-TANTS, IN NEW JERSEY, FOR TWENTY-FIVE YEARS.



Small-Pox.—The extensive epidemic of small-pox which recently prevailed throughout the United States, and which caused 142 deaths in New Jersey in 1901 and 432 deaths in 1902, rapidly subsided as soon as general vaccination was employed, and notwithstanding the fact that the disease reappeared in several localities, it caused only 16 deaths during the year ending December 31, 1903. In the annual reports of this board for the years 1896-1900 a statement was presented from year to year showing the number of unvaccinated children of

school age in the State, and it is there seen that the proportion gradually increased until, in 1800, it reached twenty-five percent, of the total enrollment. Added to this large number of unvaccinated school children was a still larger proportion of unvaccinated children under six years of age, while many adults had never been vaccinated or had not recently been vaccinated, and, taken altogether, the material for an epidemic of smallpox was very abundant. But conditions are now greatly changed, and it can confidently be said that no extensive outbreak of small-pox is likely to occur in New Jersey for the present, nor until the protection afforded by the wholesale vaccinations which have been recently done shall have become exhausted. But now is the time for health officers and school officers to complete their records, to show, as far as possible, which individuals are still unprotected against small-pox, and by the annual offer of free vaccination to indigent persons, and by requiring with the co-operation of the board of education. that all school children shall be vaccinated and re-vaccinated after five years, to maintain the defences against future exposure to the infection of this disease.

Because of the errors which have so often arisen in the diagnosis of small-pox, it is advisable that chicken-pox shall also be placed on the notifiable list of diseases. This action has been taken in many localities, and it not only aids in the detection of mistakes in diagnosis, but also removes one of the shields employed by a certain class of unprincipled practitioners who are willing to call small-pox by some other name in the hope of obtaining favor at the hands of the patient.

TABLE 37.—SHOWING DEATHS IN NEW JERSEY, FROM SMALL-POX, FOR TWENTY-FIVE YEARS.

YEARS.	Deaths from small-pox.	YEARS.	Deaths from small-pox.	YEARS.	Deaths from small-pox.
1879		1887	5	1895	23
1880	15	1888	5	1896	2
1881	254	1889	3	1897	
1882	367	1890		1898	
1883	54	1891		1899	
1884	7	1892	38	1900	5
1885		1893	43	1901	142
1886	4	1894	11	1902	432
		-	i ,	1903	16

Bright's Disease.—The deaths recorded as having been caused by Bright's disease during the past four years have numbered as follows: 1,620 in 1900; 1,246 in 1901; 1,371 in 1902, and 1,686 in 1903.

TABLE 38.—SHOWING NUMBER OF DEATHS FROM BRIGHT'S DISEASE IN NEW JERSEY, IN COUNTIES EXCLUSIVE OF CITIES, AND IN CITIES OF OVER 5,000 INHABITANTS, FOR FOUR YEARS.

NAMES OF COUNTIES AND CITIES.	Estimated population.			ns from s Disease.	
	1903.	1900.	1901.	1902.	1903.
Atlantic County	20,676	17	13	14	15
_ Atlantic City	33,272 68,718	28	36	32	34
Bergen County	68,718	27 5	25	22	31
Englewood. Hackensack.	6,745 10,739	11	8	5 3	7 8
Burlington County.	46,739	25	40	28	39
Burlington	7,392	10	9	10	12
Camden County	24,868	13	12	17	29
Camden	79,811 7,209	99 3	64	87 5	84 11
Cane May County	13,408	8	2 2	7	10
Cape May County	27,081	13	15	16	22
Bridgeton	14,660	16	11	22	24
Millville	10,757	6	.7	.5	.3
Essex County	21,562 10.613	48	17 5	15 6	19
Bloomfield East Orange	23.972	14	11	20	20
Irvington	6,375		_1	-4	-š
Montclair	15,555	10	11	5	9
Newark	265,394	280	249	255	308
Orange	25,731	35	19 7	20 2	38
West OrangeGloucester County	$\begin{array}{c} 7,510 \\ 32,757 \end{array}$	20	17	12	32
Hudson County.	12,489	- 69	39	13	22
Bayonne	36,829	28	16	21	25
Harrison	11,274	_5	.3	_2	_7
Hoboken	$64,080 \\ 219,462$	55 188	41 140	57 158	78
Jersey City	12,045	100	140	105	179
Town of Union	16,549	ii	14	12	19
West Hoboken	26,523			21	14
West New York	5,425			.4	9
Hunterdon County.	$\begin{array}{c} 34,597 \\ 22.058 \end{array}$	17	17 6	12 13	22 9
Mercer County	76,766	73	l š	54	60
Middlesex County	35,708	20	22 18	18	20
New Brunswick	20,426	23	18	19	26
Perth Amboy	20,156	18	9 2	11	9
South Amboy	7,016 70,079	48	42	5 50	3 55
Long Branch.	9,795	ii	13	10	13
Red Bank	5,752		4	2	4
Morris County	50,186	34	30	26	44
Dover	$6,488 \\ 12,200$	3 14	8	14	6
Morristown	20,308	17	111	12 12	8 14
Passaic County	24,813	17	17	16	11
Passaic City	32,452	10	11	15	12
Paterson	113,217	94	44	60	75
Salem County	19,719	7	14	11	16
Salem City	5,811 $34.804$	31	17	22	5 17
North Plainfield	5,468	l	3		4
Sussex County	25,061	10	6	8	13
Union County	20,459	10	10	. 9	15
Elizabeth	56,441	50 11	48 14	28	45
Plainfield	16,599 7,935	14	9	15 14	9 12
Summit	5,813	l. <b></b>	ľ	4	7
Warren County	27,729	13	14	16	17
Phillipsburg	11,973	6	5	4	4
T minibolyang.					

Suicide.—Deaths by suicide in New Jersey numbered 314 for the year ending December 31, 1903, or 15.70 per 100,000 inhabitants. In the previous year the number of deaths by suicide was 271, and in 1901 the number was 265, showing a slight increase during the past three years.

TABLE NO. 39.—DEATHS IN NEW JERSEY FROM SUICIDE, SHOWING MODE OF DEATH AND AGE AT DEATH, FOR THE YEAR ENDING DECEMBER 31, 1903.

	AGE AT DEATH,																	
MODE OF DEATH.	1 To 5	TO	10 To 15	TO	TO	PO	TO	TO	TO	TO	TO	TO	TO	TO	80 or 90	Over 90.	Not stated.	Total.
By poison.	4	1	T.,	3	17	19		20	19	15	15	8	16	2				153
	100			1			2	6	3	3	2	2	3				1.4	23
By strangulation.	10	1.	150	+ 5		4	2 7	6 9	8	6	5	3	1	3	1	14	1.0	36
By firearms				4	7	7	7	.0	8	6	6	4	5	3	2.8	64	1	67
By cutting instruments.	1/18	2.5	00			1	5		2		5	1	20	3	60		4.0	17
By drowning	20		12.0		1	1	1		3		1	1	2 .	00	64	+ 4	+ 4	8
by precipitation from neight		1 516	14.4	4.4	15	1	+ +	5.0	6.5		+ +	* *		29	24	+.+	1.3	1
Others.	-	1.0	13	3.5	1	F, b.			2		1		3	1	1		• •	
Totals.	4	1		5	26	33	30	41	41	27	35	19	32	12	2	7.	1	314

TABLE 40.—SHOWING NUMBER OF DEATHS BY SUICIDE RECORDED IN NEW JERSEY, BY CITIES, AND BY COUNTIES, EXCLUSIVE OF CITIES, FOR THE YEAR ENDING DECEMBER 31, 1903.

	COUNTRY OF BIRTH.													
NAME OF PLACE.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland	Hungary	Sweden.	Other Foreign.	Not stated.	Total.		
Atlantic City. Bergen County. Englewood. Burlington County. Burlington City. Camden City. Camden City. Cape May County. Cumberland County. Essex County. Bloomfield. Fast Orange. Irvington Montclair Newark. Orange. West Orange. Gloucester County. Hudson County. Bayonne. Harrison. Hoboken. Jersey City Kearny. Town of Union. West Hoboken. Hunterdon County. Merer County. Trenton. Middlesex County. Perth Amboy. South Amboy.	1 1 2 21 1 3 3  5	3		11 11 11 11 11 11 11 11 11 11 11 12 11 11	1 4 1	2 1	i	i	1	1 66 33 177	5	7 1 1 4		
Monmouth County. Long Branch. Red Bank. Morris County. Morristown. Passaic County. Passaic City. Paterson. Somerset County. Sunsex County. Union County. Elizabeth. Plainfield. Summit Warren County.	1 1 6	i		1 1	2 2 1	i	1 2			1 1	1	31		

Notifiable Diseases.—The act approved March 22, 1895, provides that every physician shall, within twelve hours after his first professional attendance upon any person suffering from certain infectious diseases, report the same to the local board of health. The diseases named in the act are as follows: Cholera, yellow fever, typhus fever, leprosy, plague, trichinosis, small-pox, varioloid, typhoid fever, diphtheria, membranous croup and scarlet fever. The act authorizes the State board of health to make additions to this list, and purulent opthalmia was added October 11, 1898. At a meeting of the board held October 11, 1904, the following resolution was adopted:

"Resolved, that in accordance with the provisions of chapter 260 of the laws of 1895, entitled an 'Act for the protection of the public health,' the board of health of the State of New Jersey hereby declares and gives notice that malarial fevers, tuberculosis, trachoma, hydrophobia, glanders, anthrax and chicken-pox are preventable, and especially dangerous to the public health.

Resolved, that malaria, tuberculosis (in any of its manifestations) trachoma, hydrophobia, glanders, anthrax and chickenpox are hereby added to the list of dangerous communicable diseases named in section 1 of chapter 260 of the laws of 1895."

Chicken-pox was added to the list because it has been found that a large number of cases of small pox are called chicken-pox, either because of an error in diagnosis or because of a desire to deceive the sanitary officers. Tuberculosis is now added to the list of notificable diseases because the legislature has authorized the establishment of a State institution for the reception and instruction of persons found to be in the incipient stages of this disease, and it therefore appears to be justifiable and desirable to learn the number and location of cases needing such treatment. Doubtless some benefit will also be derived from the distribution of printed information among the families of the infected persons, and cleansing of infected apartments will be more certainly applied after removal of the patient.

The penalty for failure to notify the local board of health of the occurrence of any one of the diseases above mentioned is punishable by a fine of fifty dollars, and the local board should take prompt action to collect the penalty in cases where the law is violated. Upon receipt of notice that any one of the in-

58

fectious diseases has appeared, the local executive officer should be prepared, and empowered by the health board, to take appropriate action to prevent the spread of the disease. This action will not be the same in all districts, for in built-up localities the risks of communicating the disease are much greater than in rural situations, but under all circumstances there are certain minimum precautions which should be uniformly applied. These are set forth with some minuteness in one of the circulars (98) issued by this board. Every health officer and every sanitary inspector should have a clear understanding of the value and necessity for each measure employed in dealing with the sick, and the local board of health should in each case require of its officers the most considerate and intelligent treatment of these cases.

TABLE 41.—COMMUNICABLE DISEASES REPORTED FOR EACH QUARTER DURING THE YEAR ENDING JUNE 30, 1904.

NAME OF SANITARY DISTRICT.		Diph	theria	۱.			arlet ver.	•	Typhoid fever.					Small-pox.			
	1.	2.	3.	4.	1.	2.	3.	4.	1.	2.	3.	4.	1.	2.	3.	4.	
Allentown borough							2	1				_	1	_			
Alloway township					II:::		ĩ	i	I : : :	' i			I::			l : : :	
Andover township						1				. <b>.</b> .			١			١	
Asbury Park City			1					2	3		1		١٠.	١٠.	٠.	ļ	
Atlantic City		• • • •						• • • •	· · :				1	2	5	ļ	
Bay Head Borough Bayonne City	35	iò	i9	30	5i	26	46	49	2	· · ;	· · · · · ·	4		$ \cdot \cdot $	• •		
Belleville township	ြီး	10	1	30	16	5	1	49	7	1	2	4			••		
Belmar borough	Ιï		l	4				- 4	4				I::		: :	l:::	
Belmar borough Bernards township			2						l	10			``				
Bethlehem township	6	6	5				4	4								١	
Bogota borough.	• • •							1					• •	• •	٠.:	<u>ا</u>	
Bordentown City Bound Brook borough .	• • •		• • • •					· · · · i							1		
Bridgeton City	· · · · · · · · · · · · · · · · · · ·	43	5			4	· · · · 6	14	· · · · · · · · · · · · · · · · · · ·	2	···ż	···ż	2	· 2	• •		
Bridgewater township	۳. اا	. =0	١ "	î	Ιi	l. *			1	ا ا		"	-	4			
Buena Vista township .	II	l		ا أ	l î	· · · · · · · · · · · · · · · · · · ·	i	2 3 3	ż	1	''i	· i	::	i		I	
Burlington City	3	14	4		9	50 88	4		2	17	11	5					
Camden City	19	46	47	89	20	88	88	69	20	1	14	10	7	11	20	٤	
Carlstadt borough Centre township		4	4	• • • •			2	• • • •				· · ·	1 :	$ \cdot\cdot $	.:		
Chatham borough		···i	••••		•••	••••	1					$\cdots$	1	• •	1		
Chesterfield township	· · · · · · · · · · · · · · · · · · ·	'	• • • •	· · · · i			····i	····i						$ \cdot \cdot $	• •		
Clayton borough				l <del>.</del> .	:::			1					6		• •		
Clementon township	3	8	3		II	i		· · · i	ľί		2		1	1::		i	
Cliffside Park borough						l <del>.</del>	1	l l	١		ĺ		1			l	
Clinton township		1	2					[ · · · · ]		3				]		ļ	
Collingswood borough		5	2	6	1		4	2	1			1			٠.		
Delaware township (C). Delford borough			···i		• • •				• • •			• • • •			• •	1 4	
Delran township	∥∵i		٠.					· · · ·					••	1	• •		
Dover City	î	27	20	7			4	5	' · · i	3							
East Greenwich twp						5		Ĭ	l	l	1:::					l	
East Orange City		6	29	11		7	23	14		1	4	5				١	
East Rutherford boro'.	2	4		4	1		4	11	2	[ · · ·					٠.:		
Egg Harbor City Egg Harbor township							;	· · · · ·	1	• • •					1		
Etna borough	• • • •					3	1 3								• •		
Evesham township														i i			
Fairview borough		1	6		II					1			1	1			
Florence township				1				2								١	
Frankford township	• • •											1					
Franklin township (B). Franklin township (S).	· · ·				1			• • • •						• •	. :	ļ. · ·	
Fredon township.								····ż				• • • •			-	· · ·	
Fredon township Freehold town	4		2	· · · · · · · · · · · · · · · · · · ·	:::	l			3		:::	:::	::	1::		:::	
Freehold township		2	]	<u>.</u>			J I		ļ	J	]	J I	II	]		]	
Garfleld borough	$\  \cdots \ $	<b> </b>		4	8		<u>.</u>	7	4			1	1	$ \cdot \cdot $			
Garwood borough	• • •						2					• • • .	]		• •	Į	
Greentownship Greenwich township (C)	$\  \cdots \ $					••••		3	• • •	• • •			· ·	$ \cdot\cdot $	• •		
Greenwich twp. (W)		3	· · · i										ı		• •		
Hackensack City.	9	ğ	10	15	· · · <u>·</u> ·	6	41	23	· · · · · · · · · · · · · · · · · · ·	6	· · · · · · · · · · · · · · · · · · ·			4		l:::	
Hackettstown town		4			II <del>.</del> .				l	l	l		II: :			i	
Haddon township			2			2	3	1	2	1				[]		١	
Haddonfield borough			ي ي	1				3	3		٠٠.						
Hanover township Hardyston township	· · · ·		3	· · · · · 5	· · ·		• • • •	• • • •	1		1	$ \cdots $	$   \cdot \cdot   $	• •	• •		
Harrington township		٥	4	ျ	l		• • • •		· · · ·				ı			l · · ·	
Helmetta borough		···i	· · · · · · · · · · · · · · · · · · ·	••••		12		::::		· · i		:::	:			l: '	
Hightstown borough		[ <b>.</b> ]	ا ً آ	اا	II::::			::::	I i	١ُ	l:::		ż	1	l'	1	
Hillsboro township		[]			$\  \dots \ $		3			<b> </b>	'		J			ļ	
Holly Beach borough				!			2		ļ				ļ	'	٠ <u>.</u> '		
U /1/\															1	1	
Hopewell twp. $(M)$	;				1		;	• • • •	٠٠.			$ \cdots $	1	١٠.	٠.		
Hopewell twp. (M) Irvington town Jersey City	1 94	234	249	178	1	149	1 470	403	··· <u>·</u> 2	10		:::	::	::	·;		

TABLE 41.—-COMMUNICABLE DISEASES REPORTED FOR EACH QUARTER DURING THE YEAR ENDING JUNE 30, 1904.—Continued.

NAME OF SANITARY DISTRICT.	Diphtheria.			Scarlet fever.				Typhoid fever.				Small-pox				
	1.	2.	3.	4.	1.	2.	3.	4	1.	2.	3.	4.	1.	2.	3.	4.
Junction borough	·	8	3			2	2		1							
Kingwood townchip Lakewood township		4	3				4		· · •			;				
Lambertville City	5	8	· · · · · · · · · · · · · · · · · · ·			4	4	i	ı i	6	4	1	W.:	1::	1	1:::
Lawrence township (C).	[ii					l				l	l	[]		(	1	
Lawrence township (M)			6												٠.	
Lebanon township Little Ferry borough	2	7			[[		· · · · i				l··i				1::	
Lodi borough		7				ī			1		i î			1::	i	
Lodi township	3					4								١		
Logan township	2	· · · · · 2	1	4	···;		4		i · · ·					1	١٠.	
Long Branch City Mansfield twp (B)	2		5	3	3		23	30	•	i				1	l::	l
Mansfield twp. (W)				l	:::			3							ļ.,	١
Medford township	$\ \cdot\cdot\cdot\ $	[										· · ;			1	
Mendham township Metuchen borough	$  \cdot\cdot\cdot  $	····i	1	i	· i	5		· · · · i		2		1, 1		• •		
Midland township					II	í						i.'	II	i	1	
Millville City	3	6	2			12	4				J <u>.</u>		<u> </u>	ļ	١	
Monroe township (G)	-;;				<u>ن</u> ۱۰۰		2		· · :	٠٠.	8		1	l·;	٠.	
Montclair City	11	38	10	11	6	9	6 2		7	5	5	''	1	1	2	
Moorestown borough	i	1		i			Ĩ	3		i		i	1	i		i
Morristown City	]	18	6	8		3	11	9	2	4	3			١	١	
Mt. Laurel township	أننا	261	202	957	4	994	424				30	25			i ;	
Newark City	$\begin{vmatrix} 211\\20 \end{vmatrix}$	361 60	$\frac{303}{20}$	257 3	83	284	434   10		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	99	39	35			1	
Newton township					*	l		3						i : :	i i	į
Northampton twp							1	<u>.</u>				<u>.</u>		١	١٠٠,	
North Plainfield boro	$  \cdot\cdot\cdot  $	10		6	1	1	• • • •	1	1			5				
Ocean Grove Asso'n Oldmans township		2	1	3		2	6		1:::			3	l::	3		
Orange City	7	22	31	12	7	17	25	18	4	10	3	3		١	١	
Palisades Park boro		3	2			ļ. <b>.</b>		1					ļ.÷.	١		
Palmyra township Park Ridge borough	$   \cdot \cdot \cdot   $		2		3							• • •		1		
Passaic City	50	53	30	14	52	33	23	33	8	9	44	8		i.:	i	i
Paterson City	38	89	68	76	26	32	46	44	22	38	16	4	IJ	١	J	3
Penns Grove borough.		4	2		1			2	3	1		1				
Pequannock township Perth Amboy City	···		1 21			6	15				4			1		1:::
Plainneld City	15	72	17	11	2	15	17	9	10	5	ĺ í	4		j	1	١
Pleasantville borough					···	2					ļ. <b>.</b> .	[		١		ļ
Pompton township Princeton borough	$\ \cdot\cdot\cdot\ $		· · · · <u>·</u>		5		3		1	5	9	···i		· ·		
Princeton township	::::				II		ľi			2	ľí			i : :	i	1
Rahway City	1	3	1	7	3	1	3	20		1	3	1	ļ	ļ.,	ļ., '	
Randolph township	$[\cdot \cdot \cdot]$					;	1			5						
Raritan township (M) Ridgefield Park Village	2	1	4			1				1 3	¦ · · ·			١	• •	i · · · ·
Riverside borough	ī			i	1	3	2		1:::					i	i	i
Riverton borough		اي			1	[	· · · : :	1	1	ļ				١		
Rockaway township Roselle Park borough	••	2 2	12		1		12	<u>.</u>						١		
Salem City	6	4	2	····à	· · · · · · · · · · · · · · · · · · ·	1	ii		1:::	l		i i		1::	i : : i	
Somerville town		8	2		٠	4	1	1	2	6	1	[]	1	١	[]	
South Brunswick twp	'[· · ·			3		1	9		2	• • • '			1			
South Orange twp South Orange village	4	7	····3	· · · i	1	1 4	13		4	i	1					
South River borough	2	7		î	3	6	3		1					1::	j i	ļ <b>.</b>
Springfield twp. (B)		]	· • • <u>•</u>		ļ	1		1		'		]		١	!	
Springfield twp. (U)	$  \cdot\cdot\cdot  $	ن ن	2			$\frac{\cdots}{2}$	2			,		· · ·				
Spring Lake borough Summit City	5	5	····i	••••	1	3	7	3			· · · · · · · · · · · · · · · · · · ·		1::	1::		
	11 %	9	-	ا آ	ıJ 🗂	۱ ،	•	1 3	11			1	ΙΙ	i · ·	1	

TABLE 41.—COMMUNICABLE DISEASES REPORTED FOR EACH QUARTER DURING THE YEAR ENDING JUNE 30, 1904.—Continued.

NAME OF SANITARY DISTRICT.		Diphtheria.			Scarlet fever.			Typhoid fever.				Small-pox				
	1.	2.	3.	4.	1.	2.	3.	4.	1.	2.	3.	4.	1.	2.	3.	4.
Sussex borough. Swedesboro borough. Tredeston borough. Trenton City. Union township (H). Union township (U). Verona township. Voorhees township. Wall township. Warren township. Washington twp. (B). Washington twp. (G). Westampton township. West Amwell township West Depford twp. West Orange town. Wildwood borough. Willingboro township. Wood Lynne borough. Wood Ridge borough. Wood Ridge borough. Wood Ridge borough.	32		67	50	2	164	286	 05	90	14	33	13	 	::	1 2 41	
Wood Ridge borough Woolwich township	1				:::		····i				:::	··i		 	i	
Total cases reported by quarters	620	1373	1091	852	407	1012	1734	1448	257	283	246	121	20	32	85	

Infectious Diseases of Animals.—Glanders was much less prevalent during the year ending October 31, 1904, than during the previous year; only 87 cases having been reported. These cases were distributed by counties, as follows: Bergen, 3; Essex, 19; Hudson, 51; Passaic, 8; Warren, 5 and Cumberland, 1.

The application which was made to the legislature for an increase of \$3,000.00 in the appropriation for the prevention of the spread of glanders was not allowed, and therefore the following circular letter was sent to the local boards of health of those counties in which the disease has heretofore appeared:

"At the last meeting of the legislature application was made by the State Board of Health for additional funds with which to meet the necessary expenses attendant upon the employment of measures to prevent the introduction of glanders into the State of New Jeresy, and to limit the spread of the disease within the State. The application was not allowed, and consequently the board finds itself without funds to deal with this disease. We therefore draw your attention to the necessity of action upon the part of local boards of health to require reports of cases of glanders, and to take the necessary steps to secure the destruction of infected animals and the disinfection of infected stables."

The health officer of the city of Newark was empowered July 8, 1904, to issue quarantine orders for the isolation of glandered horses, but he reports that no case requiring isolation has thus far been brought to his attention. In Jersey City the action of the local board of health has been prompt in securing the destruction of all infected animals which have been reported, and disinfection of infected stables has been carefully done. The reports show that a number of the horses affected with glanders which were discovered in Jersey City were imported from New York, and it is believed that many of the other cases which occurred in the State were also brought across the ferries by dealers in diseased animals. Renewed application will be made when the legislature meets for funds with which to employ inspectors who will trace up the parties who buy and sell glandered horses, and to furnish evidence which will effectually break up this traffic.

Anthrax appeared during the summer in the previously infected district bordering on Delaware bay, but only sixteen cases of this disease occurred. At the meeting of the State Board of Health held April 19, 1904, the following resolution was adopted:—"No cattle shall be pastured upon Round or Ragged islands in Lower Alloways Creek Township, Salem

County, unless said animals have been recently inoculated with anti-anthrax vaccine, and a certificate of a competent veterinarian shall have been filed in the office of the State Board of Health showing that said inoculation has been performed." Notice of this regulation was sent to all boards of health in the infected locality.

Following is a statement showing the number of cases of infectious diseases of animals reported during the year: Actinomycosis, 4; anthrax, 16; glanders, 87; forage poisoning, 2; erysipelas, 1; rabies, 3; tuberculosis, 4.

Cemeteries.—Chapter two hundred and forty-nine of the laws of 1904 provides that appeals from the action of the local board of health and the local governing body relative to the location or enlargement of cemeteries shall hereafter be made to the board of chosen freeholders of the county in which the site of the proposed cemetery or of the proposed addition thereto is located. Heretofore these appeals have been considered by the State Board of Health, but as the questions presented rarely had any sanitary bearings, and usually involved claims for damage to property, there seemed to be good reason for removing them to one of the courts of the State, where testimony could be taken under oath, and where matters relating to property values could more appropriately be adjudicated. Whether any advantage to the public interests will follow the removal of these cases to the boards of freeholders, time will determine.

Milk and Dairies.—During the past year increased efforts have been made to prevent the sale of adulterated and unwholesome milk. In addition to the measures previously employed to detect the presence of preservatives and excess of water in milk, detailed examinations of over three hundred dairy premises have been made, and the defects observed in the care of the cattle; the water supply for the cows and for washing cans, bottles and utensils; the collection, cooling and delivery of the milk, have all been brought to the attention of the producers of the milk. In Jersey City, in co-operation with the city board of health, active operations were continued daily during the months of June, July, August and September, to enforce the law against the adulteration of milk, and in

addition to this work inspections were made by the State inspectors of all of the creameries and also of all of the farms from which milk sold in Jersey City is obtained. The records of these inspections show that 286 dairy premises, on which milk is produced for sale in New Jersey, were inspected, and it was found that the cow stables were well lighted and ventilated on 127 premises; that the stables were kept in a cleanly condition on 82 premises; that 800 cubic feet of air space was allowed each cow in 96 of these stables; that pure water was provided on 165 premises; that the milk was cooled to 50° F. or below on 103 of the farms; that in 89 cases vats were used for cooling the milk; that cans and utensils used on 217 premises were washed in boiling water; that the milk from 270 of these dairies was sold at a creamery, and that the milk was cooled by placing the cans in running water on 151 premises.

The routine service rendered by the State inspectors of food and drugs in preventing the sale of adulterated milk consists in the repeated collection of samples of milk from all dealers, so far as possible, in the districts to which the inspectors are assigned. These samples are immediately iced and forwarded by express to the State laboratory of hygiene, and there they are examined. If preservatives are found, or if water has been added, the facts are sent to the office of the Attorney-General and suits for the penalty are brought in all cases where the evidence is believed to be sufficient to secure a conviction. The examination of dairies is an entirely different duty, and its judicious performance requires a much greater degree of skill and good judgment. The first step in the inspection of dairy premises, as thus far practised, is to obtain, through the local board of health, a list of all the milk dealers who sell milk in a particular municipality, together with a statement of the sources from which each dealer obtains his supply. spector of the State Board of Health, accompanied by a local officer whenever this arrangement can be effected, then visits each farm from which the milk is taken, and his observations are recorded upon blanks provided for the purpose. He takes a sample of the water used on each farm, unless inspection shows that there is no reason to suspect pollution, as in the case of public supplies and wells and springs which are located at distant points from buildings and apparent sources of con-

tamination, and the samples are sent to the laboratory. producers of the milk are notified in writing, from the office of the board, concerning the result of the analysis if the water is found to be unwholesome, and also concerning any other obiectionable conditions which are observed. The time consumed in these inspections limits the amount of work which can be accomplished, and applications for the advantages to be derived from this method of tracing up each dealer's supply, are being filed by the health officers of municipalities much faster than the facilities of the State board enable the board to perform the desired service. But the inspectors who are engaged in the work have been greatly interested in the improvements which their interviews with dairymen have already produced, and the outlook is that the entire milk supply of the State will be investigated in this manner in the course of the coming year. Re-examination is necessary in nearly all cases to learn if the improvements, particularly in regard to the water supply, which were found necessary, have been carried out. Not much friction has been encountered by the inspectors, the improvements asked for being so apparent and essential that no ground for contention has existed. Doubtless one reason for the peaceful receptions which have been extended to the inspectors has been the fact that only the most glaring and indefensible defects in the conditions and management of dairy premises have thus far been pointed out, and as the work goes on it now seems probable that a voluntary movement will occur among milk producers, having for its purpose the avoidance of interference with the sale of a product which, because of its perishable nature, will not admit of interruption in the regular disposal of the daily supply, and to also meet the unmistakable demand of the times for clean milk. dairy inspection records are supplemented with photographs, and they show very graphically some of the defects which were Reforms in dairying are now demanded with greater urgency than in earlier times because evidence has in recent years been furnished to show that unclean milk is one of the vehicles through which the organisms causing infantile diarrhœa, typhoid fever, scarlet fever, and probably several other specific diseases, enter the human body, and the commercial questions which relate to the removal of cream and

the addition of water are at present regarded as of little consequence compared with the paramount considerations involving the health and life of consumers. There has heretofore been practically no control over dairy premises, and far too many of them are still conducted as if the cleanliness of milk was of no consequence whatever. It is not regarded as improper by many milkers to strain out cow dung and hair which by chance falls into the milk, and many milkers habitually wet their dirty hands with milk before they begin to draw the milk, permitting the discolored washings to fall into the pail. To employ help of a higher degree of intelligence and to introduce asceptic methods into all of the departments of the milk business costs more mouey than to go on in the heedless manner which at present prevails, and financial questions are thus introduced into the movement for a reformation in the milk business. Following is the form of an ordinance which has been employed in one of the cities of the State to exclude unwholesome milk:

Food and Drugs.—The inspection, collection and examination of samples of food and drugs has now become well systematized in New Jersey, and every employee in this department is highly skilled in the duties to which he is assigned. The lines of work to which attention has been mainly devoted during the past year are those which have been found by experience to be the most successful in preventing the sale of adulterated articles, and during the summer the efforts of the inspectors were especially applied toward securing improvement in the

milk supply, particularly to detect the addition of preservatives and to prevent the use of polluted water for the washing of milk cans, bottles and utensils. The report of the director of the State laboratory of hygiene and of the chief and assistant inspectors which appear further on in this volume, give detailed statements concerning some of the services which have been rendered.

Attention is drawn to the remarks of the director of the State laboratory concerning the advantages which would attend the erection of a new building to be used exclusively for laboratory purposes. The continuous increase in the number of specimens sent to the laboratory for examination, and the consequent necessity for more room and for suitable accommodation for the animals required for biological examinations, in cases of suspected rabies and certain other infectious diseases, together with the need of additional facilities for testing the efficiency of animal products which are employed for remedial purposes, renders it advisable that a building adapted to the purposes indicated should be provided.

The number of suits instituted during the year for violation of the act to prevent the sale of adulterated food and drugs, was 128, of which 105 were for the sale of unwholesome or adulterated milk; 7 for adulterated food other than milk, and 16 were for adulterated drugs. The total amount of fines collected and transmitted to the State treasurer was \$4,308,30.

The total number of specimens of food and drugs examined in the laboratory during the year has been as follows: Milk, 1,611; water, 184; other food, 1,050, drugs, 927; total, 3,772. During the year ending October 31, 1903, the number examined was 3,526, showing an increase of 246. In the bacteriological department the total number of specimens examined was 6,730, an increase of 1,171 over the number examined in 1903.

TABLE 42.—SHOWING THE NUMBER OF SUITS INSTITUTED FOR VIOLATION OF THE ACT TO PREVENT THE SALE OF ADULTERATED FOOD AND DRUGS, TOGETHER WITH THE DATE OF ANALYSIS OF SAMPLE AND THE DISPOSITION OF EACH CASE, FOR THE YEAR ENDING OCTOBER 31, 1904.

Date of analysis	
Nov. 4, 1903. B-1593 Milk. Convicted, fine not part of the part of	case.
Nov. 4, 1903. B-1593 Milk. Convicted, fine not part of the part of	
Nov. 4, 1903.   B-1591   Milk   Convicted, fine not part of the paid   Nov. 7, 1903.   A-1636   Milk   Convicted, fine paid   Nov. 14, 1903.   A-1636   Milk   Nov. 7, 1903.   A-1623   Tr. Jodine   Tr. Jodine   Nov. 7, 1903.   A-1623   Tr. Jodine   Nov. 7, 1903	aid.
Nov. 7, 1903. A-1630 Milk Convicted, fine paid.  Nov. 14, 1903. A-1636 Milk	
Nov. 7. 1003 A-1623 Tr. Iodine	
Nov. 7. 1003 A-1623 Tr. Iodine	
Nov. 17, 1903. A-1619 Tr. Iodine Convicted, fine paid.	
Nov. 17, 1903. B-1619 Tr. Iodine Convicted, fine paid.	
Nov. 17, 1903. B-1606. Tr. Iodine. Convicted, fine paid.	
Nov. 17, 1903. C-1884 Olive oil Case dismissed.	
Nov. 17, 1903. A-1637 Olive oil Convicted, fine paid.	
Nov. 17, 1903. B-1607 Olive oil	_:.
Nov. 19, 1903. D-1302. Milk Convicted, fine not p. Nov. 20, 1903. B-1634. Milk Convicted, fine paid.	aid.
Nov. 20, 1903. B-1634 Milk Convicted, fine paid. Nov. 20, 1903. B-1635 Milk Convicted, fine not pa	4.4
Nov. 21, 1603. A-1615. Milk	uu.
Nov. 21, 1903. A-1615 Milk	
Nov. 23, 1903. A-1641 Tr. Iodine Convicted, fine paid.	
Nov. 23, 1903 B-1628 Cream of tartar Convicted, fine paid.	
Dec. 8, 1903. D-1352 Milk Appealed.	
Dec. 8, 1903 A-1602 Milk Convicted, fine paid.	
Dec. 8, 1903. A-1691 Milk Convicted, fine paid.	
Dec. 31, 1903.  C 1960  Milk Convicted, fine paid.	
Jan. 22, 1904. A-1718 Tr. Opium Convicted, fine paid.	
Feb. 2, 1904. C-2008 Tr. Iodine Convicted, fine paid.	
Feb. 2, 1904. C-2045 Tr. Opium Convicted, fine paid.	
Feb. 2, 1904. C-2040 Tr. Opium Convicted, fine paid.	
Feb. 8, 1904. C-2069 Cider vinegar	
Feb. 9, 1904 C-2074 Oleomargarine	
Feb. 10, 1904. A 1761 Milk Convicted, fine paid.	
Feb. 10, 1904 A-1762 Milk Convicted, fine paid.	
Feb. 10, 1904. A-1763. Milk. Convicted, fine paid. Feb. 22, 1904. D-1402. Tr. Iodine. Convicted, fine paid.	
Feb. 29, 1904 C-3240 Milk	
Mar. 7, 1904 A-1828 Tr. Opium Convicted, fine paid.	
Mar. 11, 1904 C-3253 Milk	
Mar. 25, 1904. D-1533 Milk Convicted. *	
Mar. 25, 1904. A-1855 Milk Convicted, fine paid.	
Mar. 30, 1004 C-3324 Milk	
Apr. 6, 1904. C-3331 Milk Convicted, fine paid.	
Apr. 7, 1904 C-3334 Milk Convicted, fine paid.	
Apr. 8, 1904.   C-3341   Milk   Convicted. *	
Apr. 13, 1904. $\Lambda$ -1911 $Milk$ [Convicted, fine paid.	
Apr. 13, 1904 A-1909'Milk Convicted, fine paid.	
April 15, 1904. A-1920 Milk Convicted, fine paid.	

<sup>\*</sup>Execution issued.

TABLE 42.—SHOWING THE NUMBER OF SUITS INSTITUTED FOR VIOLATION OF THE ACT TO PREVENT THE SALE OF ADULTERATED FOOD AND DRUGS, TOGETHER WITH THE DATE OF ANALYSIS OF SAMPLE AND THE DISPOSITION OF EACH CASE, FOR THE YEAR ENDING OCTOBER 31, 1904.

_	Date of nalysis	Number of sample.	Name of article.	Termination of each case.
Apr.	15, 1004	A-1010	Milk	Convicted, fine paid.
Apr.	22, 1004	D-1642a	Tr. Iodine	Convicted, fine paid.
Apr.	22. 1004	C-3301	Milk	Convicted, fine paid.
Apr.	26, 1001	C-3400	Milk	Convicted, fine paid.
Apr.	26, 1004	C-3408	Milk	Convicted, fine paid.
May	3, 1004	C-3424	Milk	Convicted, fine paid.
May	6. 1004	A-1440	Milk	Convicted, fine paid.
May	6. 1004	A-1038	Milk	Convicted, fine paid.
May	6. 1004	A-1037	Milk	Convicted, fine paid.
May	7. 1004.	C-3447	Milk	Convicted, fine paid.
May	17. 1004	D-1601	Cider vinegar	Summons not served.
May	18. 1004	D-1710	Milk	Convicted, fine paid.
May	10. 1004	D-1700	Milk	Appealed.
May	10. 1001	C-3562	Milk	Convicted, fine paid.
May	20. 1004	D-1733	Milk	Convicted, fine paid.
May	25. 1004	D-1756	Milk	Defendant acquited.
May	26. 1004	A-2037	Milk	Convicted, fine paid. Convicted. *
Tune	3. 1004	D-1704	Milk	Convicted. *
Tune	3, 1004	D-1800	Milk	Convicted.*
Tune	2 1004	D-1802	Milk	Convicted, fine paid.
Tune	14 1004	C-3787	Milk	Convicted, fine paid.
Tune		C-3794	Milk	Convicted, fine paid.
June	18 1004	D-1872	Milk	Convicted.*
Tune		C-3847	Milk	Convicted.*
Tune	22 1004	D-1881	Milk	Convicted, fine paid.
Tune	23, 1004	D-1884	Milk	Appealed.
Tune	22 [0.54]	D-1882	Milk	Appealed.
Tulv	5 1004	C-2856	Milk	Convicted.*
July	7 1004	A-2026	Milk	Convicted, fine paid.
July	7, 1904	A-2020	Milk	Convicted, fine paid.
July	12 1004	C-2021	Milk	Convicted, fine paid. Convicted, fine paid.
Tuly	12 1004	D-1046	Milk	Convicted *
July				Convicted, fine paid.
July	12, 1004	D-1041	Milk	Convicted.*
July	17. 1004	C-2061	Milk	Convicted.*
July	17 1004	C-2050	Milk	Annealed
July	18 1004	C-2022	Molasses	Convicted, fine paid.
July	10, 1904	C-2080	Milk	Convicted, fine paid.
July	20 1004	E-725	Milk	Defendant acquitted.
July	20, 1904	A-2114	Milk	Convicted, fine paid.
July	27 1004	C-4022	Milk	Convicted, fine paid.
July	27. 1004	C-4026	Milk	Convicted, fine paid.
July	27 1004	D-1080	Milk.	Appealed
July	27 1004	D-root	Milk	Convicted, fine paid.
July	27 1004	D-1000	Milk	Convicted, fine paid.
Aug.	2 1004	D-2026	Milk	Convicted *
Aug.	5 1004	D-2057	Milk	Pending
Aug.	5 1004.	D.2055	Milk.	Convicted * •
arug.	3, 1904	12.2033		COLLIECT.

<sup>\*</sup>Execution issued.

TABLE 42.—SHOWING THE NUMBER OF SUITS INSTITUTED FOR VIOLATION OF THE ACT TO PREVENT THE SALE OF ADULTERATED FOOD AND DRUGS, TOGETHER WITH THE DATE OF ANALYSIS OF SAMPLE AND THE DISPOSI-TION OF EACH CASE, FOR THE YEAR ENDING OCTOBER 31, 1904.

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Date of analysis	Number of sample,	Name of article.	Termination of each case.
Aug. 5, 1904 Aug. 6, 1904 Aug. 9, 1904 Aug. 9, 1904 Aug. 9, 1904 Aug. 11, 1904 Aug. 11, 1904 Aug. 11, 1904 Aug. 12, 1904 Aug. 24, 1904 Aug. 26, 1904 Aug. 26, 1904 Aug. 30, 1904 Sept. 6, 1904 Sept. 9, 1904 Sept. 9, 1904 Sept. 9, 1904 Sept. 10, 1904 Sept. 10, 1904 Sept. 11, 1904 Sept. 29, 1904 Sept. 11, 1904 Sept. 29, 1904 Sept. 29, 1904 Sept. 11, 1904 Sept. 29, 1904	D-2051 C-4122. C-4153. A-3222 A-3221 A-3208 A-3232 A-3231 A-3229 A-3228 A-3226 A-3258 D-2087 B-3032 B-3031 B-3027 B-3027 B-3027 B-3026 B-3052 B-3074 B-3074 B-3077 B-3082 C-4296 B-3108 B-3111 C-4374 C-4378. C-4436. B-3175 C-4465.	Milk.	Convicted, fine paid. Convicted.* Convicted.* Convicted. fone paid. Convicted, fine paid. Convicted, fine paid. Convicted, fine paid. Convicted. fine paid. Convicted.* Convicted.* Appealed. Appealed. Convicted, fine paid. Pending. Pending. Pending. Pending. Convicted.* Defendant acquitted. Convicted.* Jury disagreed. Pending. Convicted, fine paid. Pending.

<sup>\*</sup>Execution issued.

Sanitary Inspection Service.—The first examination to provide an eligible list from which appointments of local sanitary inspectors and health officers might be made, as provided for in chapter 215 of the laws of 1903, was held in the office of the board of health of the city of Newark, June 1, 1904, and ten candidates for a license certificate appeared. The sanitary examiners, five in number, who were appointed under the law

to conduct these examinations, presented the following questions, and five hours were allowed in which to make the written replies.

Those making application for license as sanitary inspector were required to answer the first twenty-four questions, while those making application as health officer were asked the first twenty-four questions with the last six questions in addition thereto.

1. Describe the necessary procedure to cause the permanent closure of a well, the water of which is impure?

2. What are the powers of a sanitary inspector with reference to enter-

ing private property for the investigation of a suspected nuisance?

3. How should a sanitary inspector secure authority to entera private house for the purpose of investigating a suspected nuisance where such entrance is refused by the owner?

4. State what you know concerning the protection of water supplies

from pollution.

What power have local boards of health to prevent the sale of im-

pure milk?

6. Describe the proper procedure for filing a certificate of birth, giving the limit of time in which such certificate must be filled, and also the ultimate disposition of such certificate.

Can a board of health cause an impure well to be closed?

Does the law protect from pollution ponds and streams from which ice may be cut?

What are the requirements concerning the interment of dead bodies as to depth and closeness of graves?

What do you mean by quarantine?

What precautions are reasonable to prevent the spread of smallpox when all members of the family have been vaccinated; the patient removed to a hospital, and the premises disinfected?

12. What constitutes a nuisance? Define its relation to public health.
13. Is stagnant water a nuisance?
14. How should an infected room be disinfected? Describe in detail each step of the process.

15. How may the discharges from a typhoid fever patient be disinfected

and safely disposed of

16. Describe in detail how a test of the gas pipes and fixtures in a building should be made.

Under what conditions are traps siphoned?

- 18. What are the approved methods for final disposal of garbage and rubbish?
- 19. Give a list of diseases the spread of which can be limited by the adoption of sanitary measures.
- 20. State the methods of transmission of the bacillus of typhoid fever from one individual to another.

21. At what intervals is it advisable to repeat vaccination?

Name the most effectual methods for the restriction of the spread of tuberculosis.

What measures should be adopted by a local board of health to limit the spread of small-pox?

- 24. For what length of time should cases of diphtheria be isolated, and how is the time for release from quarantine in such cases best determined?
  - 25. For what purposes may a local board of health pass ordinances? 26. What is the proper course of procedure on the part of a local board

of health to cause the abatement of a nuisance existing on private property? 27. Describe the method of determining the presence of the bacillus of tuberculosis in sputum.

28. What restrictions have been placed by the legislature on the operar

tion of dairy premises?

29! Will cleansing a well always remove sources of pollution?

30. What regulations govern the transportation, burial and disinterment of dead human bodies?

Stenographic notes were taken of the oral examinations. and all of the written replies and records have been placed on file in the office of the State board of health. At a meeting held July 8, 1904, the State board of health received a report from the sanitary examiners, and licenses were granted as follows: officers, Alexander Marcy, Jr., M.D., Riverton, N. J.; William S. Green, M.D., Paterson, N. J.; Walter Taylor, M.D., Jersey City, N. J.: Hiram Williams, M.D., Passaic N. J., and Budd H. Obert, Asbury Park, N. J. Sanitary Inspectors of the first class: Howard L. Baumgartner, Asbury Park, N. J., and Fred W. Hering, Jersey Clty, N. J. Sanitary Inspector of the second class: Charles Cunningham, M.D., Hammonton, N. J.

The next examination will be held Wednesday, December 7, 1904, in the State House, Trenton, and applications should be filed at least one week before this date. After January 1, 1905, no new appointment can be legally made to the office of health officer or sanitary inspector unless the appointee holds a license showing that he has given evidence that he is qualified to perform the duties of the office.

Maritime Quarantine.—During the year ending October 31, 1902, six vessels arrived at the port of Perth Amboy from the plague infected port of Antofagasta, Chile, and five vessels arrived from the same port during the year ending October 1, These facts led to much apprehension concerning the risk of admitting the infection of this disease at Perth Ambov. In the annual report of the board for 1900 the following state-"An inspection of the harbor of Perth Amboy ment appears: was made by representatives of the State board of health, August 15, 1900, and the necessity was observed for the substitution of a motor-launch in place of the rowboat at present employed for the boarding of vessels by the health officer or his deputy. In some conditions of wind and currents it is impossible for one man in a rowboat to intercept an incoming vessel, and if masters of vessels obey the harbor requirements and remain at anchor until the health officer reaches the anchorage grounds, much needless delay ensues. This board therefore recommends that provision be made by the legislature for the maintenance of a launch service at that point." The entrance to the harbor is circuitous and the channel is too narrow to admit of the anchorage of vessels of. deep draught nearer than the eastern end of the dredged channel, off Sequin's Point, a distance of seven miles from the most southerly wharf in Perth Amboy. No appropriation was made for providing a boat for use of the health officer, and the board became impressed with the view that the public interests would be better conserved if the quarantine service of the port was administered by the United States Government, and a request was therefore addressed to the health officer of Perth Amboy asking him to resign in order that the way might be clear for the United States Public Health Service to take charge, but this the health officer refused to do. The following action was taken by the board at a meeting held December 18, 1903:

"WHEREAS, Bubonic Plague has become firmly established in several of the Atlantic ports of South America, notably the report of Rio Janeiro,

where the disease is now epidemic,
"Whereas, No boat for boarding incoming vessels has been provided,
by the State, for the use of the health officer of the port of Perth Amboy,
and no protection whatever exists against the uninterrupted entrance of steam vessels which may choose to pass through the channel to the wharves of the city or up through the Kill von Kull to points farther north,

"Whereas, This board has no confidence in the ability of the health officer of the port of Perth Amboy to defend the State against the introduc-

"Whereas, The Public Health and Marine Hospital Department has offered to take charge of the maritime quarantine service at the port of Perth Amboy and to fully relieve the State, at the expense of the United States Government, of the duty of preventing the admission at that point of persons affected with the dangerous infectious diseases,

"Resolved. That in the judgment of this board the public interests will be promoted by the resignation of the health officer of the port of Perth Amboy, and by the transfer to the United States Public Health and Marine Hospital Service of the duties pertaining to the prevention of the admission of infected persons or animals at that point."

Because of the prevalence of plague in several of the ports of South America, and the continued arrival of vessels from the infected localities, the Attorney-General and the Governor joined with the State board of health in a request to the United States authorities, advising that the administration of maritime quarantine at the port of Perth Amboy should be assumed by the Federal Government. Pursuant to this request an officer of the Public Health and Marine Hospital Service was assigned to duty in the port of Perth Amboy, July 19, 1904.

Nuisances.—A much clearer understanding than formerly prevailed has been reached in relation to the extent to which nuisances shall be attacked under the provisions of the health laws, and limits have been established which will hereafter defend well informed health officers from endeavoring to improve conditions which affect property values only, and which cannot be shown to have any unfavorable influence upon the public health. Noise nuisances which have been brought to the attention of the court by individuals whose business is damaged, have been abated without bringing into the consideration any of the questions relating to health. And this is by far the better way, for it can rarely be shown to the satisfaction of the courts that the crowing of roosters, stamping of horses, buzzing of automobiles, roar of trolleys, etc., will cause sickness, and it is inadvisable that health boards shall undertake the abatement of any nuisance unless it can be unmistakably proven to be prejudicial to health.

New Legislation.—Several acts having relation to the public health were passed by the legislature during the session of 1904, some of which are as follows:

Chapter 76 is intended to regulate the sale of cocaine and prevent its use as an intoxicant.

Chapter 99 provides that a bill may be filed in the Court of Chancery for an injunction to prevent the keeping of cows in a crowded or unhealthy place, and to prevent the sale of unwholesome milk.

Chapter 119 amends the general health law by adding to the duties previously required of local boards of health the further requirement that they shall remove or abate the nuisance caused by the presence of water in which mosquito larvæ breed. This act, as now amended, requires that when the water in which mosquito larvæ breed is found by the local boards of health to exist within their jurisdictions, the owner of the property shall be notified to remove or abate the same at his own expense, but if the owner cannot be found or if he fails or refuses to take the required action, then the local board

is directed by the act to proceed to abate the nuisance or remove the said water, and the expenses incurred may be collected from the owner by action of debt, etc.

It will be seen that the procedure provided for in this amendment compels the local board to perform the work required by the notice, when the owner fails or refuses to comply with its terms, and when it is remembered that the removal of breeding places for mosquitoes is liable to involve large expenditures for the draining or filling of lands, it is found that local boards of health are quite unlikely to render themselves responsible for such outlays and take the risk of securing the return of the money through a suit at law against the owner of the property. A far better plan of operation, for the prevention of malaria and the abatement of the mosquito nuisance is to proceed by suit for a penalty under ordinances made subject to the provisions of paragraph 3 of section 12 of the act approved March 31, 1887. This method of attacking the nuisance would be usual and ordinary, and every active health board in the State is familiar with this procedure, and it has been uniformly found to accomplish the end for which it is designed. It does not require that the local board shall employ labor and construct works, but simply compels the owner to do the necessary work or pay the fine, and if he still fails to comply with the provisions of the ordinances he can be fined again, and so on without end.

Sections 13 and 14 of the act referred to were inserted in the general law to meet cases where the local board had neglected to make ordinances, and for this reason would be deprived of authority to abate nuisances unless some relieving clause was added to meet such cases. The disinclination of local boards to assume liability for expenditures as provided for in these sections is pretty clearly shown by the fact that in not a single instance has action under these sections been brought to the notice of the State board of health during the twenty-five years since the act was approved.

Chapter 171 specifies the latest revision of the U. S. Pharmacopeia as the standard for the purity of the drugs sold in New Jersey.

Chapter 189 re-establishes the board of health in Jersey City.

Chapter 211 authorizes the appointment of inspectors of food and drugs in municipalities.

Chapter 232, as originally introduced, was intended to provide for the free manufacture and distribution of diphtheria antitoxin by the State, but as it finally passed the legislature it provides that a contract for the purchase of the antitoxin from private parties shall be made. No appropriation was made to carry out the purposes of the act.

Chapter 249 relates to applications for the establishment or enlargement of cemeteries and removes the right of appeal, in cases where action has been taken by local authorities, from the State board of health to the board of chosen freeholders of the county in which the proposed cemetery is to be located. Further on in this report will be found a list of the bills relating to the public health which were introduced during the legislative session of 1904, and showing also all of those which became laws.

Lines of Travel.—From time to time inspections have been made by direction of the board to learn the methods employed in the cleansing of cars on the various lines of railroad in New Jersey, and reports of these inspections have been placed on file.

The treatment to which the sleeping cars of the Pullman Company are subjected in the yards of the Pennsylvania Railroad, in Jersey City, is shown in the following reports made by Inspector D. C. Bowen:

"On February 12 I visited the car yards of the Pennsylvania Railroad Company in Jersey City and witnessed the cleansing of the interior of the sleeping car Castalia, directly upon the arrival of the car from some point. I believe, in Florida. Upon entering the car the floor and seats were found to be littered with newspapers, magazines, lunch boxes, and other bits of rubbish incident to a long railroad journey, which had been left behind by the passengers hurridedly leaving the coach upon arriving at Jersey City at an early hour in the morning. The berths in the car were tightly closed. The cleaners worked in gangs, each man or set of men performing some particular part of the work. The carpet cleaners loosened and removed the carpet from the car to the carpet cleaning shed. They were immediately followed by two men who gathered up the rubbish, removed the cuspidors to the wash room, where they were subsequently washed in a pail of water and polished with cotton waste and a dry powder. All linen was removed from the car and sent to be laundried. All windows and ventilators in the car were opened and the car "blown out." This "blowing out" process is really dusting by the use of compressed air. A rubber hose, long enough to pass through the car window and reach to all parts of the car, was attached at a convenient point to the compressed air pipes which are distributed

about the yard. The end of the hose was fitted with a self-closing nozzle which is easily manipulated by the operator who, as he stood on a small step ladder, began his work at the top of the car by directing a current of air from the hose against the surface of the woodwork, around the ventilator openings, windows and into every crevice. The air in the pipe was under a high pressure, probably seventy or eighty pounds to the square inch, and it is very effectual in dislodging cinders and dust from seemingly inaccessible places as well as from smooth surfaces. At the same time the air in the car is filled with floating particles of dust, a portion of which is carried out of the open doors and windows and a portion settles and again finds lodgment in the car. This dusting was extended to every part of the car and furnishings, except the interior of the berths, from cciling to floor and from end to end. The bunks were then lowered and the blankets, mattresses and curtains were removed and placed on the car seats and in the car windows. While the berths were being opened and the bedding removed, I observed a fly crawl from beneath the folds of the bedding. The bed springs were raised and the berths were indifferently dusted out with feather dusters. The bedding was then passed through the car windows, a piece at a time, by one of the workmen to his helper, who spread the article upon a bench on the platform beside the car and dusted to the direction of the workmen to his helper, who spread the article upon a bench on the platform beside the car and dusted it off by directing a stream of air from the hose over the surface. As soon as the piece was dusted, it was directly passed through the window to the workman in the car. The separate pieces belonging to each bed were cleaned one after the other and, when finished, the berth was made up and closed. This method of removing dust from the bedding, when properly applied, is very effectual and is easy to apply to mattresses and pillows, but in the case of blankets, the loose folds are blown from beneath the hands of the operator, thus making them more difficult to handle. The blankets were passed from the car folded in pairs. The workman did not unfold and spread them out but dusted one slde, turned a fold back, and dusted the fresh surface exposed. Many parts of the blankets, therefore, were not exposed and subjected to the direct action of the air. The pillows which are kept in pillow boxes beneath the car seats, were removed from the boxes, dusted off by compressed air, the dust was blown from the boxes and the pillows replaced. Removing the bedding from the twelve births, cleaning and re-placing the same did not consume more than one hour from the time the bunks were lowered until the berths were freshly made up, by using the same bedding and tightly-closed again. The scrubbers were next in the car and cleaned off all the woodwork and the floors. The carpet which was first removed from the car was cleaned by compressed air in an open shed. This method of cleaning carpets is very rapid and thorough. I was informed by Mr. Hoff, yardmaster, that the method above referred to, of cleaning sleepers is applied to long trip cars, each trip, but that in short trip cars the bedding is removed and cleaned every other trip. was also stated that, barring unusual cases of soiling, blankets and pillows are not changed but once in six months. Mr. Hoff also stated that conductors are supposed to report upon arrival at the terminus of a run if a car has been occupied during the trip by any person known by the conductor to have been affected with a communicable disease. In such cases the car is said to be disinfected, stripped in whole or in part of the bedding, which is sent, as is also badly soiled bedding, to the shops in Wilmington, Delaware, to be cleansed. While observing the work above described, my identity and purpose was not known to the workmen, and for that reason I believe that I had an opportunity to witness the work as it is regularly and usually performed."

"On March 17, I again visited the car yards of the Pennsylvania Railroad Company in Jersey City, for the purpose of inspecting the cleaning of Pullman cars. At the time of this visit I saw the sleeper 'Nicaria' which had just arrived from the southern states, cleaned. The method of performing

the work in this case was practically the same as described in my report of inspection made February 12, 1904, the only difference being that my presence and purpose was known to the yardmaster and the workmen, which I believe prompted the latter to perform the work as well as it is ever done by the methods described. In this case the bedding from the berths, pillows from the pillow boxes, and cushions from the seats were all removed from the car to the bench on a platform beside which the car stood. The two workmen began to open and remove the bedding from the twelve berths in the car at twelve o'clock, M. They had finished cleaning the same and had them replaced and the berths closed up by 1.20 P. M., thus occupying one hour and twenty minutes in performing this part of their work. In these twelve berths were twenty-four mattresses, twenty-four pairs of blankets and twelve sets of berth curtain. It was noted that the man working the nozzle on the compressed air hose would dust or blow off a mattress and pass the same in through the car window in about one minute and it occupied about the same length of time for him to thus treat one pair of blankets. In this case the current of air was actually brought into contact with both sides of each blonket handled by unfolding and turning them. The surface of each side and edges of the mattresses were also well dusted. By actual count fourteen pairs of blankets and seventeen mattresses were cleaned and passed in through the car window in twenty-three minutes and forty-seconds. Twenty-three pillows were cleaned and passed into the car in five minutes and thirty-five seconds."

Institutions.—The public institutions of the State are in spected from time to time by officers of the State boord of health, and in the course of these inquiries suggestions are made for the improvements of any defects which are observed in the construction, ventilation, lighting and heating of the buildings; in the water and food supplied to the inmates, and in the management of the establishment. At a meeting of the board held January 29, 1904, the following resolution, relating to the Burlington County jail was adopted.

"Whereas, A report of an inspection of the Burlington County jail, in Mount Holly, shows that the building was erected more than 100 years ago, and that in many particulars it has undergone no improvement since it was first constructed. The report shows that the windows are small, not exceeding six feet square in area, and that the lighting is inadequate; that no provision whatever has been made for ventilation and that heating of the eastern portion is accomplished by warming the air of one overcrowded and filthy section and delivering the same air to the apartments above.

"Whereas, The report shows that the overcrowding in this prison is be-

"Whereas, The report shows that the overcrowding in this prison is beyond the limit at which human beings can maintain health, and is one of the worst cases of prison overcrowding that has ever come under the observation of this board. From 77 to 120 cubic feet of space is allowed to each inmate in the portion of the prison in which from 58 to 89 inmates are detained. The average temperature is over 80°, and there are no openings to the outer air. The report also shows that the food furnished to the prisoners is supplied to them in the pen above referred to, there being no provision whatever for their transfer to any other apartment.

"Resolved, That this board urgently recommends and advises that action shall at once be taken by the board of freeholders of the county of Burlington to erect a new county jail, and that the use of the present structure as a place of confinement for prisoners shall cease at the earliest possible day."

A communication was received from the board of freeholders which stated that the matter would receive immediate atten-At a subsequent meeting of the board of freeholders of the county, a committee was appointed to submit plans for the improvement of the jail, and the employment of a consulting architect was also advised.

Sewers.—The act approved June 13, 1890, provides (section 13) that sewers for public use shall not be constructed by private parties until a map and specifications of the proposed sewer shall have been fied with the State Board of Health and shall have been approved by them. Acting under the provisions of this statue the board has received applications for the approval of sewers to be constructed in Seaside Park, Mullica Hill and Lakehurst. In the case of Seaside Park the application was refused because the plans submitted showed that it was proposed to discharge the sewage, without purification, into the waters of Barnegat Bay near the shore and directly in front of the built-up portion of the borough. The following resolution was adopted:

"Whereas, It is necessary for the protection of the public health that all crude sewage shall be purified before it is discharged into the waters of the ocean, or into any of its bays or inlets, adjacent to any seaside resort.

"Whereas, Plans and specifications submitted for approval by the Herboth-Mitchell Company, showing sewers already laid and those which it is proposed to construct in the borough of Seaside Park, and showing also points of discharge for crude sewage into the waters of Barnegat Bay, near the shores of the bay, make no provision for such purification. Therefore he it

"Resolved, That the plans and specifications filed in the office of this board by the Herboth-Mitchell Company, December 23, 1903, for the construction of sewers in the borough of Seaside Park, are hereby disapproved."

The application from Mullica Hill was approved. The application received July 14, 1904, for approval of a sewer system in Lakehurst, was rejected because upon inspection it was learned that the sewer had already been constructed and that it had been in use for more than one year before the application for its approval was made. A report of the inspection of the sewer shows that the receiving basin and filter is located too near the railroad station, and for these reasons the board refused to sanction the construction.

Oysters and Clams.—An investigation was begun early in

the summer for the purpose of learning to what extent oysters are being taken for sale from sewage polluted waters in this State, and the facts thus far collected show that in certain localities the water in which ovsters are freshened is contaminated with sewage and unfit for the purpose for which it is employed. The inquiry has not extended to the larger oyster-producing sections of the State, but has thus far only reached the localities which seem to be more liable to contamination. A few of the detailed reports relating to these investigations are published on subsequent pages. The dangers which attend the consumption of uncooked shell fish which are collected from sewage polluted waters have been demonstrated beyond question, both in this country and in Europe, and examinations in the State laboratory of hygiene of samples of clams and ovsters grown in such waters has shown the presence of excessive numbers of colon bacilli. It should therefore be required by local health boards that oysters and clams shall not be collected. within their respective jurisdictions, for sale from any waters which are polluted by sewage, and that the freshening or fattening process should be conducted only in water which is known to be free from contamination. Authority to make ordinances to prevent the sale of unwholesome oysters and clams is provided in section 12 of chapter 68 of the laws of 1887. Following is a copy of a circular letter which was sent to the local board of health in each sanitary district of the State where oysters and clams are produced for sale:

"It has been conclusively demonstrated in recent years that clams and oysters which are taken from waters polluted by sewage are liable to cause typhoid fever, and inspections and laboratory examinations made under the direction of this board have shown that in certain localities in this State, oysters and clams are taken from waters which are contaminated by sewage, and that shell fish grown or fattened in said waters contain colon bacilli in large numbers, and that when thus contaminated they are unfit for human food.

"At a meeting of this board, held July 8, 1904, the secretary was directed to draw attention to the foregoing facts, and to advise that a careful examination be made by you of the methods employed in fattening oysters in your district, and that action be taken to prevent the sale of oysters and clams which are either grown or fattened in unclean or polluted water. This board will, upon request, assist in any inquiries which you may decide to undertake concerning the fitness of waters for the production of shell fish."

Very respectfully,

HENRY MITCHELL,

Secretary.

October 31, 1904.

# Summary of Reports from Local Boards of Health.

# ATLANTIC COUNTY.

Town of Absecon.—Members and Officers—D. W. Praster, C. C. Allen, E. H. Madden, Jesse S. Showell; Samuel Johnson, Secretary.

Atlantic City.—Members and Officers—M. Le Roy Somers, M. D., President; John R. Fleming, M. D., Vice-President; Walter J. McDevitt, Elwood S. Johnson, Jos. E. Lingerman, G. Bolton Parsons; Edward Guion, M. D., Secretary; Harry C. Beck, Health Inspector; Curtis Frambes, Plumbing Inspector; John S. Westcott, Solicitor; S. D. Bickel, Physician; Alfred T. Glenn, Clerk; Thos. W. Clement; Benj. H. Sooy, Wm. H. Rice, Henry Schneider, Jos. Symons, Assistant Health Inspectors.

# The Secretary writes as follows:

In the work of keeping the city in a sanitary and healthy condition the board has proceeded in the same systematic manner as during the past year. During the year there have been 1,070 notices issued from this office for the abating of nuisances throughout the city, including 230 for properties not connected with the sewerage system; 170 for low lots; 200 for the cleaning of cesspool vaults, and about 300 for defective drainage, and the balance of notices were issued for general nuisances. The usual number of small nuisances and complaints throughout the year have been abated, after having been first inspected and notified verbally by our inspectors.

The board has continued its endeavors to have all of the old vaults and cesspools removed wherever the sewer privileges would permit.

The board has also caused regular inspections of barber shops throughout the year and have adopted rules to obtain a satisfactory sanitary condition of the shops and greater cleanliness in regard to the work done therein. All the proprietors have been notified of this action and copies of the rules have been posted in all shops. There are at present 84 barber shops in this city.

The board can report an improvement in the quality of the food supplies that have been offered for sale in this city during the past year. Inspections of all meat and fish markets, and of all food supplies have been made throughout the year, and our inspector condemns all supplies that are not satisfactory in his judgment to be offered for sale. Condemned food is saturated with kerosene oil.

Smallpox.—Would report that there have been eight cases of this disease reported at this office during the past year, with no deaths; would also state that all the necessary precautions have been taken, each and every occupant of the premises infected were immediately vaccinated by the physician of the board, and in addition to this a strict quarantine, both day and night, was observed of the premises where this disease occurred. The isolation hospital at present in use by the city is well suited in most ways, and furnishes a very satisfactory, as well as secluded refuge for persons suffering with smallpox.

Typhoid Fever.—This disease has been a little more prevalent than during the previous year, there having been reported 54 cases, with 8 deaths resulting. This disease has been general, not limited to any locality of the city.

Scarlet Fever.—There have been 141 cases of scarlet fever during the year, as compared with 131 cases reported during the previous year. Only one of these cases proved fatal.

Diphtheria.—During the year 80 cases of diphtheria were reported, 12 of which resulted fatally. The disease was not centered in any one part of the city.

Measles.—There have been reported 126 cases of measles, an increase as compared with last year, but with no deaths from same.

Chicken-pox.—There have been 26 cases of chicken-pox reported at this office during the year.

The following is a table of contagious diseases reported by month, during the past year, with deaths resulting therefrom:

	Diphtheria.		Diphtheria. Scarlet.			Typ	Typhoid.		Small-Pox.		sles.	Chicken-Pox		
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Савэв.	Deaths.	Савев.	Deaths.	Cases.	Deaths.		
October	. 5	0	13	0	3	0	0	0	0	0	0	0		
November	. 4	0	7	0	4	0	0	0	1	0	0	0		
December	. 13	1	11	1	2	0	2	0	1	0	2	0		
1904.														
January	. 12	0	41	0	3	1	3	0	3	0	3	0		
February	. 6	1	23	0	6	1	2	0	10	0	7	Ö		
March	. 15	4	15	0	2	0	0	0	16	0	4	0		
April	. 5	0	15	0	4	2	0	0	14	0	2	0		
May	. 1	0	7	0	3	1	0	0	40	0	2	0		
June	. 2	1	3	0	0	0	0	0	33	0	6	0		
July	. 8	3	1	0	9	1	0	0	6	0	0	0		
August	. 5	1	1	0	12	3	0	0	1	0	0	0		
September	. 4	1	4	0	6	0	1 '	0	1	0	. 0	0		
Totals	80	12	141	1	54	8	8	0	126	0	26	0		

During the year much time has been devoted to the disinfection of houses where cases of contagious diseases have occurred, and every premises has been given a thorough disinfection with formaldehyde gas, and in no instance has there been a recurrence of the disease. A large amount of clothing, bedding and other goods have been destroyed.

During the past year a great many examinations and peppermint tests of house drains have been made at the request of owners, agents and tenants, and in most cases defective plumbing has been repaired on verbal notification from our inspector without any action by the board, and of which no records have been made. There has been a comparatively small amount of new work for the past year, but a large number of houses with defective plumbing have been repaired to conform to the ordinances of the board, necessitating a large number of inspections. The following is a list of plumbing permits issued from this department during the past year:

1903—October, 4 permits; November, 15 permits; December, 30 permits. 1904—January, 19 permits; February, 9 permits; March, 10 permits; April, 16 permits; May, 19 permits; June, 17 permits; July, 18 permits; August, 11 permits; September, 7 permits. Total, 175 permits.

Would also report that there have been 51 inspections made by our inspector for new sewer connections throughout the year.

Deaths.—During the year permits have been issued for the burial of 564 bodies, including 48 still-births, and of this number 408 were residents of this city and 156 were non-residents, or visitors. Four hundred and fifty-six were white and 108 were colored. Two hundred and ninety-seven were males and 267 were females. There were also 22 deaths recorded from contagious disease, and 25 from violence.

Marriages.—There were 358 marriages recorded during the past year, of which number 50 were non-residents of the city; 265 were white and 93 were colored. Of the ceremonies 133 were performed by the Methodist clergy; 44 by the Baptist; 44 by Episcopal; 48 by Catholic; 38 by Presbyterian; 6 by Lutheran; 5 by Hebrew; 39 by Justices of Peace, and 1 by the Mayor.

Births.—There have been 580 births reported at this office, including 48 still-births, and of this number there were 514 white, and 66 colored, 297 males, and 283 females.

### DISPOSAL OF GARBAGE IN ATLANTIC CITY.

The city has made a decided improvement in the matter of disposal of garbage. The system now in use is the Arnold utilization system, of which nine other similar plants being in use in this country, viz.: New York City (two on Barren Island), Washington, D. C., Boston, Mass., Philadelphia, Pa., Baltimore, Md., Reading, Pa., and Newark, N. J. The Atlantic City plant is operated by a private company and cost to build,

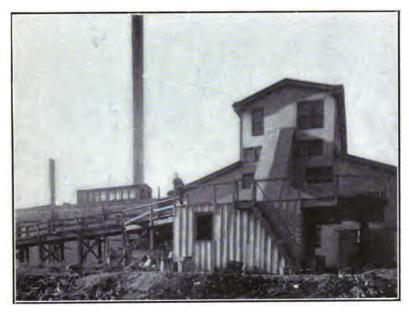
irrespective of the cost of the ground, \$100,000. The ground belongs to the city, and is rented to the company at a nominal sum. The city pays this company \$20,300 a year for the disposal of the garbage, and each year for ten years an additional thousand dollars is to be added to the price mentioned. Another company collects the garbage throughout the city, delivering same to the garbage disposal company at a cost to the city of \$16,000 per year. Since June 4th, 1904, when the plant was first started, there was destroyed the following amount of garbage: June, 1,570 tons; July, 2,930 tons; August, 6,940 tons; September, 3,110 tons.

Photograph No. 1 shows a picture of the plant. On the right of the picture is an incline up which the wagon with its load of garbage is driven. No. 2 shows the top of incline, the floor of which contains a trap door, through which the garbage is emptied from the wagons into an iron conveyor, which carries the garbage by an endless chain to the digestors (of which this plant has twenty), by means of chutes running from the endless chain arrangement from above to the digestors. No. 3 shows the chutes connecting conveyor with digestors. Each digestor holds 15 tons of garbage, is 6 feet in diameter and 18 feet long. The garbage is hermetically sealed in these digestors and boiled from eight to twelve hours, when it is transferred to the receiving tank (which holds 30 tons), and from this tank it is built into "cheeses" or press forms, which make a flat bundle covered with burlap, each cheese being 5 feet square and 6 inches thick. Each cheese is placed between two boards or racks, and fifteen of these cheeses or press forms are placed under the hydraulic press and subjected to a pressure of 300 tons. No. 5 shows hydraulic press at work. The liquid matter is pressed from the digested garbage and carried to large tanks, where the grease is separated and barreled, and then is sold and sent abroad for use in the extraction of glycerine and in the manufacture of soaps, candles, etc. The solid matter remaining after pressing is conveyed to the boiler room, and there used for fuel. After the extraction of grease, the resultant liquid matter, which is a coffee colored, hot (temperature about 100 degrees F.) mixture having an aromatic odor, is utilized for washing the floors, etc., and then allowed to empty into the city sewer. This waste water is stiril by reason of its having been boiled for over eight hours at a temperature of 340 degrees F.

Brigantine Borough.—No organized Board of Health—James R. Bissex, Clerk.

Buena Vista Township.—Members and Officers—Alfred Pennock, Sr., Vineland; Thos. H. Hults, Vineland; Edward J. Smith, Richland; Harry Brown, Newtonville; Douglass Reed, Secretary, Buena.

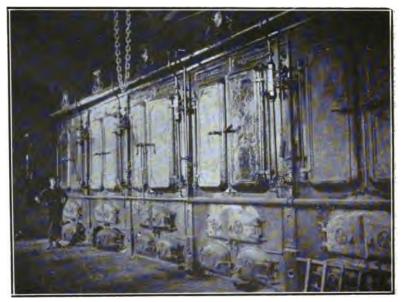
Egg Harbor City.—Members and Officers—Geo. F. Breder, President;



No. 1. Exterior of garbage disposal plant, Atlantic City, N. J.



No. 2. Top of incline. Garbage disposal plant, Atlantic City, N. J.



No. 6. Boiler rooms. Garbage disposal plant, Atlantic City, N. J.



No. 5. Hydraulic press. Garbage disposal plant, Atlantic City, N. J.

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J. U. Elmer, M. D., V. P. Hofmann, Secretary; H. G. Regensburg, Inspector; Aug. A. Breder, Inspector.

Egg Harbor Township.—Members and Officers—Walter Fifield, President, Bakersville; John Blackman, Steelmanville; Allan Tallman, English Creek; A. R. Vickers, Clerk, Bakersville.

Galloway Township.—Members and Officers—Joseph C. Bowen, Port Republic; Edward Ertell, Pomerania; Wm. Krebs, Cologne; T. W. Madden, M. D., Absecon; Joseph Nehr, Secretary, Cologne.

Hammonton Township.—Members and Officers—Joseph H. 'Garton, President; J. C. Bitler, M. D., Samuel Anderson, John A. Hoyle, W. J. Lieb, M. D.; J. L. O'Donnell, Secretary; Chas. Cunningham, M. D., Inspector.

Longport Borough.—No organized Board of Health—R. M. Elliott, Mayor.

Mullica Township.—Members and Officers—W. W. Phillips, Chairman, Elwood; Chas. Saalmann, Egg Harbor City; Alex. J. McKeone, Pleasant Mills; John Mick, Elwood; John T. Irving, Secretary, Elwood.

Pleasantville Borough.—Members and Officers—Pardon R. Adams, President; Frank Reiner, Samuel Bartlett, Samuel B. Jones, Lewis H. Barrett; Wilbur Reed, Secretary; R. M. Sooy, M. D., Inspector.

South Atlantic City.—Members and Officers—Chas. Bogg, President; P. J. Gilligan, Josiah Norcross, H. F. West; Chas. Hart, Clerk.

Ventnor City.—Members and Officers—Geo. Carson, President; Andrew Johnson, Wilbert Harris, Frank Scull; Wm. Kuhl, Secretary; Benj. F. Hilliard, Inspector.

Weymouth Township.—Members and Officers—Anderson Campbell, Tuckahoe; Thos. Bailey, Tuckahoe; Franz J. Boehly, Risley; Randolph Marshall, M. D., Tuckahoe; Francis R. McKeague, Secretary, Tuckahoe.

## BERGEN COUNTY.

Allendale Borough.-Members and Officers-W. E. Carver, President;

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J. J. Pullis, W. C. Illsby, John A. Carsha; W. N. Pollock, Inspector; J. M. Christopher, Secretary.

During the year an ordinance prohibiting spitting upon the floors of public buildings has been passed.

Alpine Borough.—Members and Officers.—W. T. Opdyke, Charles Hauser, Douglass Green, J. H. Conklin; L. H. Tavemier, Clerk.

Bogota Borough.—Members and Officers—John McNaughton, President; R. B. Lord, Peter Bogart, Jr., Henry Wehrmaker; T. J. Roberts, Secretary.

Carlstadt Borough.—Members and Officers.—Frank Hoffman, President; Chas. Lonz; Herman Foth, Secretary; Ernest F. Sickenberger, Inspector.

The secretary of the board reports as follows:

During the past year eight complaints were received, most of them were remedied. Two were brought before a justice of the peace, one of which resulted in a reprimand, the other with a fine of \$25.00; thereof \$21.80 was received by the secretary, who turned this amount over to the tax collector of the borough. One case was ordered to be prosecuted at our last meeting in September.

During the last year the board held twelve meetings.

Cliffside Park Borough.—Members and Officers—John E. Ferdinand, M. D., President, Cliffside; Albert E. Wicks, Hudson Heights; Leonard Winkler, Cliffside; Daniel P. Woods, Cliffside; Robert H. Nutt, Secretary, Cliffside.

The secretary of the board reports as follows:

The board feels that it has, in an unassuming way, without offense, accomplished some good during the year.

The question of cesspools and the care of waste water in that part of the district not sewered, particularly in connection with large dwellings and tenement houses, is the most serious problem confronting the board. During the year the board has had both cesspools and privy vaults cleaned; has furnished plans for the building of both; has had one cesspool abolished; has had repairs made to private drains, has had the public gutters cleaned and flushed during the summer.

What our district is sorely in need of is a complete sewage system.



No. 3. Digestors. Garbage disposal plant, Atlantic City, N. J.

Cresskill Borough.—Members and Officers—John Demarest, President; John W. Flecke, Christie Westervelt, F. G. Simmons, Paul Ruhl; J. B. W. Lansing, M. D., Inspector; Geo. Y. Allaire, Registrar; Henry V. Westervelt, Secretary.

Demarest Borough.—Members and Officers—M. J. Bogert, President; C. E. Hutchison, G. E. Looker, A. M. Schureman; Wm. Begg, Secretary.

Dumont Borough.—Members and Officers—J. R. Overocker, E. B. Root, W. H. Niehoff; J. E. Pratt, M. D., Secretary.

East Rutherford Borough.—Members and Officers—N. Kip, President; A. Bolle, W. E. Ogden, M. D.; W. E. Novo, Secretary; P. B. S. Hodges, inspector.

Edgewater Borough.—Members and Officers—Geo. W. Allison, President, Fort Lee; John Riley, Fort Lee; John Winterburn, Edgewater; Robert Proctor, Edgewater; Geo. A. Carleton, Secretary, Edgewater.

Englewood City.—Members and Officers—Byron G. Van Horn, M. D., President; Geo. B. Best, M. D., Chas. Morse, Edward J. Shendan; Gilliam D. Bogert, Secretary; Irving Middleton, Inspector.

Etna Berough.—Members and Officers—Jay W. Watkins, Richard Domenice; Harry I. Angell, Secretary.

Fairview Borough.—Meembers and Officers—Fred. Schneider, President; Wm. Wingerath; C. M. Driggs, Secretary; Chas. Sedore, Inspector; John Bush, Registrar.

Fort Lee Borough.—Members and Officers—Max Wyler, President, Fort Lee; Gerome Sardi, Fort Lee; Benj. L. Willan, Coytesville; Wm. E. Wood. Coytesville; Chas. E. Goebel, Fort Lee; Ferd. Knorzer, Fort Lee; Robert H. Morrow, Secretary, Coytesville.

Franklin Township.—Members and Officers—Andrew E. Voorhis, President, Wyckoff; John W. Courter, Campgaw; Wm. J. Packer, Midland Park; E. W. Hamilton, M. D., Oakland; Daniel Snyder, Secretary, Midland Park.

Garfield Borough.—Members and Officers—John Karl, President; J. W. Dwyer, M. D., Jos. Whitehead, Edward Hegeman; P. J. Scanlon, Secretary; Jacob Brown, Inspector; Dr. R. O. Hasbrouck, Vet. Inspector.

Glen Rock Borough:-Members and Officers-John A. Marinus, Harry

Smith, Barney Vandenberg, John J. Storms; Peter Van Winkle, Clerk, Ridgewood.

Hackensack City.—Members and Officers—Lemuel Lozier, President; Robert G. Wool, Wm. P. Ammerman, Samuel T. Crissy, Fred. Staib, Tunis A. Haring; C. T. Demarest, Secretary; Robert Ballagh, Inspector; Fred. S. Hailett, M. D., Inspector.

Harrington Township.—Members and Officers—John Blauvelt, President, Harrington Park; David A. Ward, Harrington Park; Samuel Dackerman, Northvale; Lewis B. Parcells, M. D., Closter; Wm. J. Demarest, Secretary, Norwood.

Hasbrouck Heights Borough.—Members and Officers—Frank S. Flagg, President; A. K. Goodrich, Jas. S. Valentine; John G. Martin, Secretary; S. V. Morris, M. D., Health Inspector; Luther Shafer, Attorney.

Haworth Borough.—Members and Officers—Henry E. Crocker, President; W. T. McCulloch, Mayor; M. Dieck, C. A. Park, A. C. Lobeck; E. H. Schuyler, Secretary.

Hohokus Township.—Members and Officers—Chas. E. May, Ramseys; Peter Z. May, Ramseys; Jas. H. Carlough, Mahwah; John Ackerman, Secretary, Wyckoff; Jas. W. Collins, M. D., Inspector, Ramseys.

Leonia Borough.—Members and Officers—Henry R. Goesser, President; Arthur D. Bogert, J. T. Wyckoff, M. D.; H. M. Thompson, Secretary; A. P. Hurd, John Boyd, Inspectors.

Lodi Borough.—Members and Officers—Anthony DeWard, President; Peter DeVries, Josiah DeSchutter; Jacob Van Hook, Secretary; Henry H. Brevoort, M. D., Inspector.

Lodi Township.—Members and Officers—Chas. Foose, President, Wood Ridge; Peter Strunk, Wood Ridge; John Switz, Little Ferry; Julius Pries, Secretary, Wood Ridge.

Maywood Borough.—Members and Officers—C. E. Breckenridge, H. Heck, J. R. Davies, G. M. Fetzer; Wm. Widnall, Jr., Secretary.

Midland Township.—Members and Officers—John G. Zabriskie, Chairman, Rochelle Park; Jacob H. Blauvelt, Ridgewood; Otto Weisgerber, Rochelle Park; John D. Bogert, Secretary, Ridgewood; Frank Freeland, M. D., Inspector, Maywood; Clarence Mabie, Counsellor, Hackensack.

Midland Park Borough.—Members and Officers—Thos. Holt, President, Midland Park; Jacob Leenas, Secretary, Wortendyke; W. I. Vroom, M. D., Inspector, Ridgewood.

Oakland Borough.—Members and Officers—D. J. Fox, President; W. C. Stout, C. H. Sheffield; W. B. Romaine, Secretary; E. W. Hamilton, M. D.. Inspector.

Orvil Township.—Members and Officers—E. West, Jr., President, Hohokus; Jas. A. Van Dyne, Waldwick; W. A. Sharp, Waldwick; F. T. Russell, Secretary, Hohokus; John E. Young, Inspector; G. M. Oxford, M. D.

Palisades Park Borough.—Members and Officers—J. Johnson, P. Herzog, J. Jordon, O. Shultz; Martin Brunings, Secretary.

Park Ridge Berough.—Members and Officers—H. C. Neer, President; C. E. Terbune, D. C. Forbes, J. A. Moenig, M. D.; J. H. Stark, Clerk; H. Schlesch, Inspector.

Ridgefield Borough.—Members and Officers—H. G. Henwood, President; John C. Banta, J. C. McGill, E. Robinson; B. F. Underwood, M. D., Secretary.

Ridgefield Park Village.—Members and Officers—Hugh Innis, President; Louis, Weiss, J. W. DeGroat, P. W. Johnson; D. S. Servoss, Secretary; W. P. Ackerman, M. D., Inspecttor.

Riverside Borough.—Members and Officers—J. H. Jenkins, President; B. S. Mapes, Benj. G. Pratt; W. W. Herrick, Secretary; Robert Ballaugh, Inspector; Chas. Blankenhorn, Fumigator; all of River Edge.

Rutherford Borough.—Members and Officers—F. M. Buckles, President; J. C. Sares, Chas, Calhoun, M. D., A. B. Tucker, Geo. F. Shermerhorn; G. W. Lawton, Secretary; John A. Croker, Inspector.

Teaneck Township.—Members and Officers—Wm. Bennett, Englewood; C. J. Teihune, Hackensack; Robert Stevenson, Englewood; Peter L. Ackerman, Secretary, Hackensack.

Upper Saddle River Borough.—Members and Officers—Herman T. Hopper, President; John Swartz, Henry Snyder, Jacob Snyder, George-Goetschins; Wallace N. DeBaun, Secretary. 'All of Allendale.

Westwood Borough.-Members and Officers-S. J. Zabriskie, M. D.,

### BERGEN COUNTY—Continued.

Isaac Onderdonk, Jas. & Ackerman, Henry Waterbury; Nicholas Cleveland, Secretary.

Woodcliff Borough.—Members and Officers—S. Burrage, President, Woodcliff; John H. Wortendyke, Woodcliff; David H. Tice, Allendale; Peter E. Van Riper, Allendale; Wm. English, Woodcliff; G. J. Wortendyke, Secretary, Allendale.

Wood Ridge Borough.—Members and Officers—Jos. H. Schmitt, President; Frank Ball, Herman H. Hofener; Frank W. Lehman, Secretary; Chas. R. Ruegger, Inspector.

## BURLINGTON COUNTY.

Bass River Township.—Members and Officers—R. F. Garrison, M. D., President; S. B. Allen, B. F. Headley, John W. Bowers; W. D. Cramer, Secretary. All of New Gretna.

Beverly City.—Members and Officers—R. P. Haines, President; J. C. Allen, J. J. Currie, M. D., Chas. Parsons, Jr., Geo. Smith; B. F. Soby, M. D., Secretary; C. F. Richardson, Inspector.

Beverly Township.—Members and Officers—Frank H. Story, Delanco; Wm. T. Bagg, Beverly; H. N. Perkins, Beverly; H. K. Weiler, M. D., Delanco; Jos. B. Carter, Secretary, Delanco.

Communicable diseases have been reported by physicians, and a record of them kept by the secretary. A house to house inspection is made annually early in the summer. All objectionable matter is required to be put outside, which is removed at the expense of the board of health. After which, a collection of such matter is made twice each month. Garbage is collected twice each week. A record is kept of births, marriages and deaths. No fines have ever been imposed for violation of health ordinances, as the public seems inclined to aid the board in its work.

Bordentown City.—Members and Officers—C. D. Mendenhall, M. D., President; Samuel E. Burr, Edwin L. Thompson, L. D. Tebo, M. D., S. R. Magee, D. R. Brown; Wm. H. Shipps, M. D., Secretary; H. J. Marran, Inspector.

#### BURLINGTON COUNTY—Continued.

The secretary of the board reports as follows:

"Gratuitous vaccination has not been offered to the public during the past year.

All cases of contagious disease, such as diphtheria and scarlet fever, are promptly isolated, although we have no hospital for the reception of said cases. During the past year not a case of small-pox has occurred, consequently we have had no use for the municipal hospital, where such cases are treated. The following gives the number of cases of contagious diseases reported for the year ending October 1, 1904:

	Typhoid Fever.	Scarlet Fever.	Cerebro Spinal Meningitis.
October	1	0	
November	0	0	
December	4	2	
January	1	0	
February	7	3	
March	8.	2	
April	1		4
May	4		1
June	1		
July	1		
August	1		
September	3		
			· 
Total	32	7	5

During the year the city has purchased a tract of land known as Asays Springs, situated on the Trenton road, at White Horse, for the purpose of supplying the town of Bordertown with water for domestic use. Plans for the proposed works have been drawn and an appropriation to pay for same ordered by the common council."

Total number of meetings held during the year, 16.

Bordentown Township.—Members and Officers—C. D. Mendenhall, M. D., C. C. Hance, C. F. Neese, Geo. B. Holloway; Hugh LeJambre, Secretary. All of Bordentown.

Burlington City.—Members and Officers—J. B. Cassidy, M. D., President; Wm. C. Farner, Thos. H. Birch, N. D. Keeler, Wm. R. Schuyler; A. P. Silpath, Secretary; Wm. M. Jeffries, Inspector.

Sewers have been extended 1,250 feet during the year, and 415 houses have been connected. A regular monthly inspection is made of alleys, streets and yards, and prompt action is taken by the board of health when nuisances are discovered. Monthly

# BURLINGTON COUNTY—Continued.

inspections of dairies, from which milk is supplied to consumers in the city, are made.

Seven meetings were held.

Chester Township.—Members and Officers—Jos. Stokes, M. D., Arthur J. Collins, Geo. Brock; Benjamin Rogers, Secretary; F. G. Stroud, M. D., Inspector. All of Moorestown.

Chesterfield Township.—Members and Officers—Edward M. Ridgway, Crosswicks; Chas. E. Wallace, Chesterfield; C. Walter Miller, Chesterfield; Newton H. Chaffee, M. D., Chesterfield; Chas. H. Holloway, Secretary, Chesterfield.

Cinnaminson Township.—Members and Officers—Clayton Conrow, Cinnaminson; T. E. Steele, Secretary, Palmyra; J. D. Janney, M. D., Medical Inspector, Cinnaminson.

Delran Township—Members and Officers—Chas. Beaty, Bridgeboro; Alex. Bright, Bridgeboro; Jos. L. Denneler, Riverside; Daniel A. Kendall, Clerk. Riverton.

Evesham Township.—Members and Officers—A. W. Lefland, President; Wm. J. Evans, S. D. Farrow, H. D. Lippincott; Benjamin K. Brick, M. D., Secretary. All of Marlton.

Fieldsboro Borough.—Members and Officers—Wm. I. Leonard, President; W. N. Errickson, Walter Griffiths; Wm. Leatherbury, Secretary; Samuel Church, Inspector.

Florence Township.—Members and Officers—George Beatty, President; David Baird, M. D., Oscar Donnelley, Harry Aikins; Byron Carty, Secretary. All of Florence.

Mansfield Township.—Members and Officers—C. G. Kinsley, Chairman, Columbus; A. N. Dobbins, Columbus; C. C. Bryant, Columbus; Jos. H. Armstrong, Secretary, Columbus; A. H. Patterson, M. D., Inspector, Georgetown.

Mt. Laurel Township.—Members and Officers—Richard G. Dudley, President, Moorestown; Budd M. Horner, Masonville; Chas. H. Wilkins, Mt. Laurel; Benj. M. Haines, Secretary, Moorestown; J. B. Wintersteen, M. D., Inspector, Moorestown.

Northampton Township.-Members and Officers-Jos. E. Elberson, Jos.

# BURLINGTON COUNTY—Continued.

S. Shreve, J. Franklin Hunter, T. Lacey Akins, Fred M. Shemeley; M. H. Girven, Secretary; R. H. Parsons, M. D., Inspector.

Pemberton Borough.—Members and Officers—Anthony J. Morris, J. G. Montgomery, Wm. H. Smith, J. Newton Clevenger, Harry B. Ridgeway, Earl R. Lippincott; John H. Antrim, Clerk.

Pemberton Township.—Members and Officers—Isaac Rogers, Victor Bush, Chas. Kinsley; Barclay Leeds, Secretary, Pemberton.

Riverside Township.—Members and Officers—Ernest Rine, Alios Hemmalie, Wm. Mathias; Chas. Heiss, Clerk, Riverside.

Riverton Borough.—Members and Officers—J. C. S. Davis, President; C. C. Rianhard, C. L. Flanagan, Harry Wyman; Alex. Marcy, Jr., M. D., Secretary.

The Secretary of the Board reports as follows:

"The past year has been uneventful in the affairs of the board of health. Our district has had but few cases of communicable or contagious diseases to contend with. There have been reported two cases of typhoid fever, one of scarlet fever; no diphtheria or small-pox. Measles and whooping cough prevailed to a very limited extent; tuberculosis very uncommon. Births during the year, 31; deaths during the year, 20.

One of the perplexing problems to be met in the near future is garbage collection and disposal. The cost, for small municipalities, makes it a difficult question to satisfactorily solve. All nuisances reported to the board have been abated, and many that were not reported have been overcome. We are compelling all properties on the line of the public sewer to connect therewith, and abolishing all outside privies."

Tabernacle Township.—Members and Officers—J. Cooper Haines, Amos C. Taylor, Wesley Taylor; Geo. H. Wisham, Assessor, Tabernacle.

Washington Township.—Members and Officers—Albert Sooy, President, Green Bank; Thos. H. Sooy, Green Bank; Chas. T. Allen, Lower Bank; Walter S. Sooy, Secretary, Green Bank; John E. Cary, Health Inspector, Lower Bank.

Willingboro Township.—Members and Officers—Elwood Hart, President, Rancocas; A. J. Jordan, Burlington; T. T. Buzby, Beverly; E. D. Prickett, M. D., Mt. Holly; Jerome Wills, Secretary, Burlington.

Woodland Township.—Members and Officers—V. Ritzendollar, C. H. Grant, E. Inman; E. C. Dunfee, Secretary. All of Chatsworth.

### CAMDEN COUNTY.

Camden City.—Members and Officers—Reuben H. Gaskill, President; M. F. Middleton, M. D., E. W. Collins, M. D., H. H. Davis, M. D., H. H. Sherk, M. D., S. G. Bushey, M. D., M. K. Mines, M. D.; Eugene B. Roberts, Secretary; M. F. Ivins, Treasurer; Thos. P. Curley, Solicitor; J. T. Leavitt, M. D., Health Officer; H. B. Francis, Plumbing Inspector; Jos. A. Starr, Nuisance Inspector; J. O. George, D. V. S., Meat Inspector; G. H. Robinson, Assistant Inspector; Lewis P. Munion, Disinfector.

The secretary of the board reports as follows:

"About 5,000 feet of new sewers were constructed during the year, mostly in the outlaying districts which were annexed to Camden about five years ago. In the city proper nearly all the streets are supplied with sewers, and nearly every house is connected directly and separately to the sewer. There has been no extension to our water supply system during the year.

Fifteen meetings were held during the year.

Contagious diseases reported during the year ending October 1, 1904:

	Cases.	Deaths.
Typhoid fever	34	3
Scarlet fever	. 235	14
Diphtheria	212	31
Mem. Croup	29	15
Smallpox		13
Tuberculosis	30	19
•		
Totals	587	95

During the year 1,176 nuisances were reported, and were given immediate attention, and without exception were abated.

One of the needs of this city is a general municipal hospital for the care of all patients of a contagious or infectious nature, as at the present time we only have facilities for small-pox cases, and none for diphtheria or scarlet fever, but hope that the day is not far distant when such a movement will be brought about, as the increase in population and improvements made demand that such an institution be established."

Centre Township.—Members and Officers—Larry B. Wolohon, President, Magnolia; Howard M. Haines, Magnolia; Wm. F. Miller, Mt. Ephraim; John H. Jackson, Secretary, Magnolia; Leslie C. Lyon, M. D., Inspector, Magnolia.

## CAMDEN COUNTY—Continued.

Two cases of diphtheria, 3 of scarlet fever, 1 of typhoid fever and 1 of small-pox were reported.

Five meetings were held.

Clementon Township.—Members and Officers—Jacob C. Lippencott, President, Kirkwood; Geo. Summerfield, Clementon; Fred Tomlinson, Laurel Springs; Edgar B. Sharp, M. D., Berlin; Geo. W. Evans, Clerk, Lindenwold.

Collingswood Borough.—Members and Officers—A. C. Kraft, President; W. L. Patterson, Harry W. Dilkes, Chas. S. Fletcher, Geo. Rudderon, A. Hart, Jr.; Edward S. Sheldon, M. D., Inspector; Ross G. Pidgeon, Secretary; W. S. Chalfant, Nuisance Inspector; C. R. Shinn, Plumbing Inspector; John O. Wilson, Solicitor.

Delaware Township.—Members and Officers—Jos. Hinchman, Jr., Merchantville; J. Watson Matlack, Haddonfield; Richard Kayhn, Haddonfield; Wm. Graff, Assessor; W. B. Jennings, M. D., Secretary, Haddonfield

Haddon Township.—Members and Officers—Harry R. Fort, President, Haddonfield; Archilus L. Farrand, Oaklyn; Joseph J. Irvin, Orston; James Macaulay, Secretary, Haddonfield; W. B. Jennings, M. D., Inspector, Haddonfield.

Haddonfield Borough.—Members and Officers—Wm. J. Boning, President; Chas. H. Hillman, Chas. Reeves, Edward B. Austin; Wm. H. Harrison, Secretary; Edward Magill, Inspector.

Haddon Heights Borough.—Members and Officers—George Waters, President; Edward Jenks, W. M. Pollock, C. Merchant; Robert J. Clyde, Clerk.

Merchantville Borough.—Members and Officers.—F. W. Kleinz, President; A. H. Moses, J. W. Marcy, M. D., S. D. Ingham, M. D., Jos. E. Van Kirk; W. B. Stewart, Secretary; Wm. Linderman, Inspector.

Waterford Township.—Members and Officers—C. D. Heath, President, Berlin; Exaver Ottinger, Berlin; Wm. L. Walker, Waterford; H. N. Gillon, Secretary, Berlin; F. O. Stem, M. D., Inspector, Berlin.

Winslow Township.—Members and Officers—Jos. R. Imhoff, Winslow; W. Brimfield, Cedar Brook; Jos. G. Strock, Cedar Brook; M. G. Burdsall, Secretary, Tansboro.

#### CAMDEN COUNTY—Continued.

Wood Lynne Borough.—Members and Officers—Chas. H. Wagner, President and Acting Secretary; Lemuel E. Ware, R. I. Haines, M. D.; Jos. Wood, Inspector.

# CAPE MAY COUNTY.

Cape May City.—Members and Officers—Alonzo Leach, M. D., President; Albert B. Little, Lafayette M. Hall, Geo. L. Lovett, Robert S. Hand; V. M. D. Marcy, M. D., Secretary.

Holly Beach Borough.—Members and Officers—Samuel K. Spencer, President; Lorenzo C. Johnson, Wm. A. Shaw, Geo. B. M. Adams, M. D.; E. H. Randolph, Secretary; Eben Tenney, Inspector.

Lower Township.—Members and Officers—Geo. Dickinson, President, Erma; Aaron Woolson, Fishing Creek; Daniel Schellenger, Erma; W. A. Lake, M. D., Erma; J. P. MacKissic, Secretary, Cape May City.

Middle Township.—Members and Officers—Luther T. Garretson, Cape May Court House; J. Morgan Dix, M. D., Cape May Court House; Luther M. Swain, Swainton; V. N. Erricson, Dias Creek; Stillwell H. Townsend, Clerk, Cape May Court House.

Upper Township.—Members and Officers—Harry Young, Beesley's Point; Washington Van Gilder, Petersburg; Jas. G. Stille, Tuckahoe; Jesse T. Young, Secretary, Beesley's Point; R. F. Smith, Registrar, Marmora; Randolph Marshall, M. D., Inspector, Tuckahoe.

West Cape May Borough.—Members and Officers—Thomas Hughes, President; John Hughes, Samuel Taylor, Jacob Smallwood; A. G. Stevens, M. D., Secretary.

Wildwood Borouugh.—Members and Officers—Frank Shepard, James M. Slaughter, M. D., John N. Reeve; Wm. R. Cills, Secretary; W. H. Washburn, Inspector.

Woodbine Borough.—Members and Officers—Wm. Eisenberg, President; S. Kelinson, Jacob S. Levin; Eugene J. Asnis, M. D., Inspector; Morris Subber, Secretary.

### CUMBERLAND COUNTY.

Bridgeton City.—Members and Officers—Ellsmore Stiles, M. D., President; Wm. J. Moore, Wm. R. Cummings, Oscar E. Rellum, Chas. R. Tomlin, Wm. Daniels, W. H. Ballenger; John H. Moore, M. D., Secretary; Chas. E. Bellows, Health Inspector; Wm. Paullin, Plumbing Inspector.

Commercial Township.—Members and Officers—C. W. Hand, President, Port Norris; Clarence M. Robbins, Port Norris; E. B. Bradford, M. D., Port Norris; Reuben L. Sharp, Mauricetown; John McConnell, Secretary, Port Norris.

Deerfield Township.—Members and Officers—Elijah R. Parven, Deerfield Street; Burt Hughes, Rosenhayn; Samuel M. Fox, Bridgeton; Chas. C. Phillips, M. D., Secretary, Deerfield Street; Jas. McNab, Inspector, Bridgeton, R. F. D. No. 5.

Hopewell Township.—Members and Officers—E. G. Ayars, President, Bridgeton; E. D. Perry, Bridgeton; D. D. Davis, Shiloh; Walter L. Minch, Secretary, Shiloh.

Landis Township.—Members and Officers—O. H. Admas, M. D., President; Harry Taylor, John Van Dyke, Edwin Kyte, W. I. Frost, Geo. W. Ozias; H. M. Dolbey, Secretary, Vineland.

Lawrence Township.—Members and Officers—E. L. Mulford, Peter Johnson, David W. Sheppard, Frank M. Bateman, M. D., Furman B. Sheppard; Henry S. Long, Clerk, Cedarville.

Eight cases of small-pox occurred in the township during the year, and one death resulted from the disease.

Maurice River Township.—Members and Officers—Chas. Grassman, President, Port Elizabeth; Chas. Champion, Dorchester; Chas. Williams, Heislerville; Henry Reeves, Jr., Secretary, Leesburg.

Millville City.—Members and Officers—Silas C. Smith, President; Edwin Conover, R. B. Radcliffe, Wm. G. Champion, J. W. Wade, M. D.; L. H. Hogate, Secretary; Frank Bullock, Inspector.

The secretary of the board reported as follows:

"Fifteen miles of sewers have been laid, and are nearing completion; the cost will be about \$105 000. The sewers are under municipal control,

## CUMBERLAND COUNTY—Continued.

and when in operation will greatly relieve existing unhealthy conditions. No extensions of water works have been made this year."

Stow Creek Township.—Members and Officers—J. B. Seagraves, President, Bridgeton; Lewis Willis, Bridgeton; Chas. D. Fogg, Bridgeton; R. A. Fogg, Secretary, Shiloh.

Vineland Borough.—Members and Officers—J. H. Dawler, Jr., President; A. Laricks, E. A. Pierce, J. C. Schramm; S. C. Slade, Secretary; N. P. Marvel, Sanitary Inspector; R. H. Garrison, Plumbing Inspector; H. C. Bartlett, Counselor.

# ESSEX COUNTY.

Bloomfield Town.—Members and Officers—E. M. Ward, M. D., President; Jas. H. Moore, Jas. J. Thompson, Allen Andrews, Wm. A. Ritscher, Jr.; Wm. L. Johnson, Secretary.

The secretary reports as follows:

During the year the board and officers have been very active in the performance of their duties. A large number of nuisances have been abated, and at the present time our district is in excellent sanitary condition. Many property owners have been ordered by the board to clean out and fill closet vaults and cesspools, and to make sewer connection; all such orders have been promptly complied with, which has greatly improved our sanitary condition. Property owners have also been compelled to fill up low, swampy ground in different parts of our district; 94 house sewer connections were made during the year; 18 cases of scarlet fever reported, 4 deaths; 7 cases of diphtheria reported, 2 deaths; 4 cases of typhoid reported; 1 case of small-pox.

The following ordinance was adopted:

The local Board of Health of the Town of Bloomfield, in the Couunty of Essex, do ordain as follows:

Section 1. That the carrying or conveying in receptacies, carts or vehicles of any description whatever, through the alleys, streets or highways of the town of Bloomfield, any animal flesh, fat, carrion or putrid meat at any other time and in any other manner than is hereinafter specified, is hereby defined and declared to be and does constitute a nuisance.

Section 2. And any person or persons or corporation are prohibited and forbidden in the Town of Bloomfield, to carry or convey in receptacles,

# ESSEX COUNTY—Continued.

carts or vehicles of any description whatever, any refuse or animal flesh, fat, carrion or putrid meat, except it be between the hours of 5 and 7 o'clock A. M., from the first day of June to the first day of October, and between the hours of 5 and 8 o'clock A. M., from the first day of October to the first day of June in each year.

Section 3. No receptacle, cart or vehicle of any description whatever used for the purposes mentioned in the two preceding sections of this ordinance shall without necessity therefor stand or remain, nor shall a needless number gather before or near any building, place of business, or other premises; nor shall the person using said receptacle, cart or vehicle occupy and unreasonable length of time in loading or unloading, or passing along any alley, street or highway of said Town of Bloomfield. And when not in use, all such receptacles, carts or vehicles and all implements used in connection therewith shall be stored and kept in some place where no needless offense shall be given to any of the inhabitants of said town.

Section 4. That all receptacles, carts or vehicles mentioned in the three foregoing sections in which any substance in said sections referred to may be or be carried shall be strong, tight, and the sides shall be so high above the load or contents that no part of such contents or load shall fall, leak or spill therefrom. And every such receptacle, cart or vehicle shall be adequately and tightly covered.

Section 5. 'That any person, persons or corporation violating any of the provisions of this ordinance shall forfeit and pay a penalty of ten dollars. Ordinance adopted August 18, 1904.

E. M. WARD, President.

Attest: WM. L. JOHNSON, Secretary.

Caldwell Borough.—Members and Officers—Dr. David M. Gardner, President; Dr. E. E. Peck, W. W. Wright, Lambert Speer; Isaac E. Baldwin, Secretary.

East Orange City.—Members and Officers--Eugene M. Brewster, President; Harvey Mott, Warren S. Furman, Chas. M. Matthews, Roger H. Butterworth; Thomas N. Gray, M. D., Secretary; Wm. T. Bowman, Inspector.

Essex Fells Borough.—Members and Officers—Walter Brown, President; C. E. Leach, W. Seaman Scott, Jas. A. Speer; F. Byrne Ivy, Clerk.

Irvington Town.—Members and Officers—Joseph Clickenger, President; Jonah Hardgrove, Herman Fisher, Hugo Winkler, Chas. Bougas; Edwin Berry, Secretary.

Montclair City.—Members and Officers—Chas. D. Thompson, President;



# ESSEX COUNTY—Continued.

Richard P. Francis, M. D., Levi W. Halsey, M. D., M. N. Baker; John N. Holton, Secretary; Chester H. Wells, Health Inspector; John J. O'Brien, Jr., F. H. Streighthoff, Assistant Inspectors; John A. Clark, Jr., Inspector of Gas Pipes.

Newark City.—Members and Officers—H. C. H. Herold, M. D., President; C. M. Zeh, M. D., W. S. Disbrow, M. D., Joshua Brierley, C. P. Zimmerman, J. T. Wrightson, M. D., J. W. Dobbirs, H. C. Ross, L L. Davenport, L. E. Hollister, M. D.; David D. Chandler, Health Officer.

North Caldwell Borough.—Members and Officers—Chas. B. Gould, Caldwell; Louis F. Kussmaul, Singac; Wm. E. Captain, Singac; Ralph C. Bach, Little Falls; Sherman Paddock, Secretary, Caldwell; Fred. L. Baldwin, Registrar, Caldwell.

Nutley Borough.—Members and Officers—J. LeBel, Chairman; G. B. Philhower, M. D., M. Van Winkle, L. Day; Frederic Clements, Secretary; E. E. Faith, Inspector.

Orange City.—Members and Officers—John T. Platt, President; Jas. H. Brown, John Burke, John McGowan, G. Herbert Richards, M. D., John T. Davis, Thos. C. Colt; Wm. Schluer, Secretary; Samuel D. Philpot, Plumbing Inspector; Richard Savage, Sanitary Inspector; Arthur. B. Seymour, Attorney; W. Dodge, M. D., Pathologist.

The secretary of the board reported as follows:

There were reported from October 1st, 1903, to September 30th, 1904, eighty-four (84) cases of diphtheria; ninety-two (92) cases of scarlet fever; twenty-two cases of typhoid fever and one case of smallpox.

The deaths from these diseases were: Diphtheria, 11; scarlet fever, 6; typhoid fever, 4.

For the first time in many years scarlet fever and diphtheria were prevalent among the Italians of this city (Out of a population of 24.141 we have over 6.000 Italians.) The first Italian patient suffering with diphtheria was reported June 1st, 1904. From this we traced five other cases, all Italian children. The first case of scarlet fever was reported on June 8th, and fourteen (14) other cases were the result from this case; all Italians. If ever there was an object lesson showing the need of an isolation hospital this is one of them. At the beginning of this outbreak entreaty, admonition or threat failed to keep persons away from the infected places. At the first death we were obliged to call the police to our aid, that a semblance of privacy might be observed at the funeral. Finally, after several more deaths, it began to dawn upon the people that it would be wise to heed our rules and regulations, and today we are on a fair way to suppress the outbreak.



## ESSEX COUNTY—Continued.

Of the twenty-two (22) cases of typhoid fever fourteen (14) were reported from October 1st, 1903, to March 1st, 1904, and eight (8) cases from March 1st to date. It is to be remarked that at this time of the year, when in former years the disease was most prevalent, we are entirely free; which speaks well for the purity of our water supply and the good quality of milk and ice sold in this city.

In the majority of these cases the source of the disease was found to be outside of this District, yet several cases occurred where the cause could not be surmised

The small-pox case was of a colored woman. Her case presents several interesting features. She claims that she has not been outside of Orange for two years; that she has not associated with strangers; no prodrome, except headache, for several weeks before the eruption appeared. Four physicians examined the patient before one could be found willing to make a positive diagnosis.

On the date she was discovered (July 26th) the eruption seemed to be ten days old. Her three infant children had lived with her. She was removed to the Isolation Hospital in the South Orange Mountain and her children were taken along. All persons who had come in contact with her were vaccinated, and no other case has developed. She was discharged on September 23rd.

We have no place where a case of diphtheria or scarlet fever might be isolated. In 1902 a law was enacted giving two or more municipalities the right to join in the establishment of an isolation hospital. In compliance with this law a contract was made between all the Oranges, except East Orange, for the erection and maintenance of such an institution, and the sum of \$25,000.00 was awarded to cover cost of the same. A joint committee, comprising representatives of the municipalities interested, was formed and this committee proceeded to select a site for the hospital. As might be expected, opposition to the location of such a hospital was found whenever and wherever a site was being selected, and in all cases the Commissioners of the joint meeting yielded to the objectors. A site was finally selected in a remote part of the Orange Mountain, and even here objections were raised which were carried to the court. A decision has not been rendered. Neither party shows a willingness to push the case to a final issue.

Whether or not we may eventually have an isolation hospital depends upon the decision of the Court and the energy of the Commissioners. In compliance with another law the Essex County Freeholders are about to erect a county hospital at Bellvillle, but this being five miles from Orange, it will be of little use to us.

The principal industry in Orange is the manufacture of soft felt hats. There is nothing about this trade specially injurious to the health of the operatives.

We make house to house inspections, paying special attention to the

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#### . ESSEX COUNTY—Continued.

less sanitary district. One thousand and seventy-three (1,073) premises were inspected; of these four hundred and twenty-five (425) were found to be in good sanitary condition. The owners of one hundred and eighty-seven (187) premises were ordered to connect their houses with the sewer; the owners of two hundred and ninety-four (294) premises, where partial sewer connection had been made, were ordered to establish closets and to abandon the privy vaults. Minor defects found on the other premises were ordered abated.

We find a great improvement in the desire of the general public to comply with the sanitary laws, and in many instances additional financial burdens are incurred that the necessary improvements may be made We keep a record of all injections made.

We have four dairy premises and they are frequently inspected.

We have one hospital in Orange, Memorial Hospital, corner Essex avenue and Henry street. A second hospital is contemplated. It will be in charge of Rev. F. Victor Romanelli, pastor of the Italian Roman Catholic Church, and will be on the corner of Center and Hurlbut streets.

Fifteen (15) suits were instituted during the year. In each case judgment for the Board was obtained. The penalties collected in four suits was \$45. The other eleven the penalty (\$25.00) was refunded on making connections. Eight of the eleven premises have since been connected.

The Board held twelve meetings during the year.

South Orange Township.—Members and Officers—H. Stacy Smith, Wm. H. Knox. Wm. H. Kemp, C. A. Cross, A. Moorey, W. W. Heberton, M. D., Thomas C. Baker, Secretary; Joseph h. Osborn, Clerk.

Vailsburgh Borough.—Members and Officers—Edward A. Zusi, President; John V. Diefenthaler, John F. Murphy, Wm. T. Duhuert, Peter Loehnberg, P. B. Davenport, M. D., Wm. Billington, Secretary; Robert A. Braitsch, Sanitary Inspector.

West Caldwell Borough.—No organized Board of Health. Clifton C. Francisco, Borough Clerk.

West Orange Town.—Members and Officers—Jos. B. F. Grady, President; Jos. Fleming, Ditlow Schroll, Jr., Secretary; Benj. L. Williams, Registrar; Jas. M. Maghee. M. D., Inspector.



### GLOUCESTER COUNTY.

Deptford Township.—Members and Officers—Wm. A. Allen, Woodbury; Jos. Moblitts, Wenonah; Benj. Hains, Westville; H. H. Clark, Woodbury; Carroll C. Headley, Secretary, Westville.

East Greenwich Township.—Members and Officers—John Heritage, Mickleton; David Brown, Swedesboro; Daniel Packer, Mt. Royal; J. C. Dauson, Clerk, Mickleton.

Elk Township.—Members and Officers—Rulof Knisell, President, Aura; Franklin Homan, Glassboro; Thos. Hann, Ewan; Samuel L. Seran, Secretary, Aura.

Franklin Township.—Members and Officers—A. A. Smith, M. D., Malaga; A. B. Richman, Malaga; Samuel Lowder, Newfield; Chas. Trinnell, Newfield; W. S. Jones, Franklinville; H. C. Richman, Secretary, Malaga.

Glassboro Township.—Members and Officers--C. S. Heritage, M. D., President; Josiah W. Shute, W. Hyenney, J. T. Abbott, Secretary. All of Glassboro.

Harrison Township.—Members and Officers—Samuel T. Stratton, Mullica Hill; A. S. Murphy, Richwood; S. F. Ashcraft, M. D., Mullica Hill; Eli Heritage, Secretary, Richwood.

Logan Township.—Members and Officers—Isaac Derrickson, President, Repaupo; Hugh McGlincy, Sr., Bridgeport; Wm. F. Justice, Bridgeport; E. T. Oliphant, M. D., Bridgeport; S. B. Platt, Secretary, Bridgeport; S. H. Richards, Attorney, Bridgeport.

Mantua Township.—Members and Officers—W. H. Denn, President, Mantua; Robert Shoemaker; Jos. Lodge, Secretary, Pitman Grove; L. M. Slaughter, M. D., Inspector, Pitman; E. Z. Hilligrove, Inspector, Mantua.

Monroe Township.—Members and Officers—D. S. Champion, Harry White, Jas. M. Tweed, L. M. Halsey, M. D.; Clayton B. Tice, Secretary All of Williamstown.

South Harrison Township.—Members and Officers.—Wm. Hudson. Harrisonville; Richard Ridgway, Mullica Hill; Geo. T. Wilkinson, Basset; Samuel T. Stanger, M. D., Harrisonville; David C. Lippincott, Secretary, Harrisonville.



# 104 REPORT OF THE BOARD OF HEALTH.

#### GLOUCESTER COUNTY—Continued.

Swedesboro Borough.—Members and Officers—Harry Mayhew, President; Frederick Weber, J. M. Yound; Wm. H. Rieger, Secretary; W. G. Simmons, M. D., Health Inspector.

Wenonah Borough.—Members and Officers—Harry A. Stout, M. D., President; Chas. J. Yost, Wm. J. Dawson, Chas. H. Lorence, M. D., Jesse W. English, Clerk.

West Deptford Township.—Members and Officers—R. M. Plum, President, Thorofare; W. R. Gibbs, Thorofare; Elmer E. Clements, Thorofare; Jas. Hunter, M. D., Westville; Jas. Carter, Secretary, Thorofare.

Woodbury City.—Members and Officers—Wm. T. Cooper, President; H. B. Diverty, M. D., Samuel B. Burkett, John B. Avis, H. A. Wilson, M. D., H. H. Clark, M. D., Arthur Starr, Secretary; Joshua Dawson, Health Inspector; Samuel E. Wilmer, Plumbing Inspector.

Woolwich Township.—Members and Officers—Benj. Shoemaker, President; B. Crispen; Nathan Lippincott, W. Grant Simmons, M. D., Secretary; H. C. Howey, Assessor.

### HUDSON COUNTY.

Hudson County.—Members and Officers—John E. West, M. D., President; E. J. G. Valentine, M. D., C. B. Converse, M. D., C. J. Rooney, Clerk; Jas. Lynch, Assistant Clerk; John Connell, M. D., Medical Health Inspector; John H. Sullivan, Health Inspector; John T. Nagle, Health Inspector; A. H. Mansfield, Health Inspector; Alex. Simpson, Counsel; Geo. Sanderson, Clerical Assistant.

Bayonne City.—Members and Officers.—Hon. Thos. Brady, President; Chas. McGee, Lucius F. Donohoe, M. D., Thos. B. Mettam, J. Herman Mahnken, Jas. Foerst. E. T. Carbin, Secretary; A. C. Forman, M. D., Health Inspector; H. S. Winterhalter, Sanitary Inspector; John H. Nevins, Assistant Health Inspector.

The Secretary states that communicable diseases are regularly reported by the attending physicians, that the infected premises are placed under quarantine, and that a notice of the location of each case is forwarded to the superintendent of public schools, and to the superintendent of the public library. Gratuitous vaccination is offered three days in each week at the office of the



board of health. Sanitary inspection of houses are made only on complaint or by the request of citizens, but when such inspections are made a record of the same is kept. Eight thousand two hundred and fifty lineal feet of new sewers were constructed during the year, and 20,162 feet of water pipe, with 30 hydrants, were also added. Only one cemetery is located in the city. Caspar Schmidt, 222 East Twenty-second Street, is superintendent. The records of the vital statistics of the city are kept by the county board of health, no provision in reference to the same having been made by the local board. One private hospital known as the Bayonne hospital, is maintained by subscription, the city contributing \$1,500 a year. Sixty dollars in fines were collected during the year for violation of the sanitary code.

Twelve meetings were held by the board.

Harrison Town.—Members and Officers.—John J. Malone, President; John J. Daly, Henry Allers, M. D., Nathaniel Comey, John J. Scannell, Secretary; John T. McClure, Health Inspector.

Hoboken City.—Members and Officers—E. T. Steadman, M. D., President; Graham M. Sinclair, Millard F. Jackson, August Grassmann, D. B. Pindar, M. D., W. T. Kudlich, Health Warden; Jos. Tucker, Secretary; Antonio Granelli, Health Inspector; John Beronio, Asst. Health Inspector; Jas. A. Marnell, Plumbing Inspector; E. A. S. Lewis, Attorney; Patrick Quinn, Pound Keeper; Chas. Bagley, Dog Census Enumerator.

Jersey City.—Members and Officers—G. K. Dickinson, M. D., President; G. E. McLaughlin, M. D., F. E. Lambert, M. D., F. D. Gray, M. D. J. M. Rector, M. D., G. M. McCarthy, Wm. Delaney, J. P. Henry, M. D., H. C. Hespe, M. D., J. A. Sprouls, Henry Smellie, Secretary.

The health officer writes as follows: "In accordance with the provisions of Section thirty-seven of Chapter LXVIII of "An Act to establish in this State, Boards of Health and a Bureau of Vital Statistics, and to define their respective powers and duties," approved March 31, 1887, amended by the act approved March 2, 1901, I respectfully submit herewith the annual report of the sanitary conditions existing within the jurisdiction of the Board of Health of Jersey City, N. J., together with such other subjects and facts as come under the duties and powers of this department, and as required by your circular of inquiries dated September 1, 1904. Since the last annual report, the Board of Health of this city has been re-organized under the provisions of an act approved March 29, 1904, which is similar in effect to the act approved May 15, 1894, and the department is



in a state of gradual evolution or change from old methods to new and more modern forms of sanitation. New rules and regulations for our guidance and new ordinances governing, regulating and controlling communicable diseases, nuisances, plumbing and other matters with which we are empowered by law to supervise are being prepared and will soon be adopted and in effect. Every effort will be made to give satisfactory replies, seriatim to the questions presented in the circular, enlarging upon such as are of special interest and importance.

This sanitary district is comprised of the territory embraced within the city boundary lines of Jersey City, and is located in Hudson County; its control is intrusted to a local Board of Health, appointed by the Mayor under the before mentioned act of 1904, composed of ten members, who are well known, experienced and competent gentlemen in the professional and business life of this locality.

The regular meetings of the Board of Health are held on the first and third Mondays of each month, at the City Hall. The office of the department, since October 1, 1904, is located in well lighted and ventilated rooms in the basement of the City Hall (entrance on Mercer street), having been moved from our former quarters, 262 Grove street. The employes, their titles, salaries and term of office are as follows:

Name.	Rank.	Per a	annu	m.
Henry Smellie	Health Officer and Secretary	\$1	1,400	00
Dr. Ferdinand N. Sauer	Chief Deputy Health Officer	1	1,000	00
John Callary	Plumbing Inspector	1	1,000	00
Dr. F. C. Robertson	Deputy Health Officer		800	<b>00</b>
Dr. George D. White	Deputy Health Officer		800	00
	Deputy Health Officer		800	00
Hugh F. Gallagher	Sanitary Officer		800	00
	Sanitary Officer		800	00
Thomas H. Giblin	General Clerk and Stenographer	·	720	00
	Captain Scow No. 1		780	00
William H. Dell	Captain Scow No. 2		780	00

Fred Hering, a patrolman of the Police Department, salary \$1,000, paid by the Police Commissioners, who has been detailed to this board since May 28, 1902, and the present Board of Health have requested the Police Commissioners to continue the detail. (This officer has passed the examination provided for under the provision of the act of 1903, and has been granted a license as Sanitary Inspector of the first-class). Besides attending to the many official duties as executive officer of the department, the Health Officer is required to act as Secretary of the Board; the Chief Deputy is detailed as Superintendent of Contagious Diseases and has charge of fumigations. Deputy Barry is Permit Clerk. Sanitary Officer Gallagher has been appointed an Inspector of Food and Milk, by



the State Board of Health, and has taken many samples of this food during the last two months, and has been the means of convicting a number of dealers whose milk was found impure or adulterated. In this work he was assisted by Deputy Robertson and Sanitary Officer Francis, and their work will result in a purer supply of this indispensable article, and reduce sickness and death among infants and young children. Sanitary Inspector Hering has assisted the Plumbing Inspector in making inspections and tests of new plumbing and drainage systems. The prompt attention to complaints of nuisances and securing their abatement is always desirable. but cannot always be accomplished here because of the small force available to do this work, and there is no prospect of any immediate addition because of a lack of funds. All of the employes were reappointed when the present Board of Health took charge, to hold office at the pleasure of the Board. The requirements of Section 38 of the present Health Rules of this department are very similar to those of Section 1 of Chapter 260 of the Laws of 1895, and have been generally observed by physicians practicing in this city. A record of each case of contagious or communicable disease reported, is kept in a book used for no other purpose, and the total number reported, including "glanders" in horses, from December 1, 1903 to October 1, 1904, was 2,647. A nominal fee of ten cents is charged for vaccinations, but many are vaccinated free of charge, when too poor to pay. Gratuitous vaccination is offered to the public at the free dispensaries, five of which are maintained in different parts of the city during the months of July and August of each year, under the supervision of this Board. An emergency hospital, located on Tonnele avenue, is maintained by this department to provide and care for cases of contagious diseases (excepting smallpox), when they cannot be properly isolated or cared for at home, and for persons taken sick at hotels and boarding houses, or while traveling on public conveyances. We have no record showing any particular trade or occupation carried on in this district injurious to the health of operatives, excepting the men employed in the Hudson River tunnel, who are subject to the "bends," or caisson disease, and are treated on the spot, by physicians employed by the company. Prior to this year, house-to-house sanitary inspections have been made every spring, about April 15th, by the Police Department, all over the city, and on their reports notices were sent and abatements secured. all of which have been recorded in precinct books kept for that purpose; but owing to the change in the personnel of the Board of Health, no general sanitary inspection has been made this year, but 2,654 premises have been inspected on complaints. The new water supply contracted for by the city on February 28, 1899, at a cost of \$8,000,000, has been nearly completed, and the city is now receiving a full supply from the new reservoir at Boonton, by the gravity system. Some complaints have been made regarding the purity of the water, and the Board of Health is arranging to cause the water to be analyzed at regular intervals, and pre-



vent pollution. During the past year there has been a considerable extension of the water mains, and several large contracts for new and larger pipes have been let, and the work will soon be commenced. A number of new branches of main sewers have been completed, and many small lateral sewers have also been put in this year, making available for building purposes a large area that is now being built on in response to a steadily increasing demand for modern houses and apartments. A large number have been built during the past year, and many more are about to begin building. An inspection of the cow stables and dairy premises located in this district was made by State Inspector George W. McGuire and Deputy Health Officer Robertson in the early part of the summer, and on many of them well water, which was found to be impure on analysis, was in use. Orders have been issued to discontinue its use and to fill up the wells and secure a supply of city water. In one or two cases this will be impossible until the city extends its mains.

The cemeteries in this district are as follows: New York Bay Cemetery, located on Garfield avenue, at Chapel avenue, was established in 1849, and is owned by lot owners and governed by a board of trustees. Bay View Cemetery, located on Ocean and Garfield avenues, at Chapel avenue, was established in 1885 by a stock company, and is well kept and one of the largest and most beautiful in this State. Poth of these cemeteries are under the supervision of Thomas W. Tilden, Superintendent, No. 818 Grand street. The Jersey City Cemetery is located at 435 Newark avenue, near the New Jersey Junction Railroad, and was established in 1830: governed by a board of trustees. Arthur Bradshaw is Superintendent, and lives on the premises, 435 Newark avenue. The Bergen Reformed Dutch Cemetery is an old landmark in this community, and is located on both sides of Bergen avenue, between Vroom street and Highland avenue; it is the oldest, and was established in 1660, when Bergen was a stockaded settlement, and within it, rest the remains of many of the first settlers of this section. West of, and adjoining it on Vroom street, is a small plot called "Speer's Cemetery (originally Speer's farm), which is considered a part of the larger cemetery, as they are under one management. William H. Mead is Superintendent, No. 489 Communipaw avenue. The Hudson County Catholic Cemetery is located on West Side avenue. between Montgomery street and Stuyvesant avenue; it was established in 1860, and is the largest in this district. It is a beautiful place, with a well kept, rolling surface, fine lawns and driveways. Its management is directed by the Rev. Father Ter Wert, and John McDonald is Superintendent, No. 3,015 Boulevard. St. Peter's Catholic Cemetery is located on Tonnele avenue, near Beacon avenue, and was established about 1840: this cemetery is not used very often at the present time, and is under the same management as the Hudson County Catholic Cemetery. The Methodist Cemetery is located at No. 127 Linden avenue, near Ocean avenue. This is a small plot belonging to the Greenville Methodist Church, and



was established about 1845; it is in charge of John McEntyre of No. 208 Lembeck avenue.

The records of births, marriages and deaths occurring in this city are kept by the County Board of Health, under an agreement between the city and county boards at a joint meeting held August 28, 1896, in accordance with the provisions of Paragraph 2, of "An act concerning boards of health in cities of the first class," approved March 22, 1895, and passed resolutions mutually agreeable defining what each should have charge of within the city limits, but it is the intention of this Board in the near future to establish a "Bureau of Vital Statistics," to record the local births, marriages and deaths occurring within this district.

The MacErlain Institute, corner Jackson and Bidwell avenues, founded by Rev. Father J. C. MacErlain as a private sanatorium for the treatment and cure of alcoholicism. The "Raymond Roth Home," Garfield avenue, near Dwight street, for the care of aged and indigent Germans of both sexes.

Fines for violation of health ordinances amounting to eight dollars have been collected, and are paid to this Board by the Court imposing the same. The former Board of Health, which was composed of the three Police Commissioners, two city Physicians and the Health Inspector, held five meetings this year prior to the change. The present Board of Health, since their organization on May 6, 1904, have met fifteen times, and many subjects have been considered for bettering the sanitary conditions of our city, the filling in of meadow lands, the disposal of garbage, the improvement of the sewerage system and the alteration, amending and general revision of the health ordinancees are some of the subjects considered. The Health Board has also taken preliminary action for the building of a new city hospital.

The amount of business transacted, and the receipts and expenses will average about the same as that of the preceding two or three years. The total amount received for permits, licenses, fees, etc., from December 1, 1903, to October 1, 1904, including appropriations and balance from last year, was \$12,539.39, as follows:

December, 1903, to balance\$	641	73		
January, 1904, to appropriation	2,137	44		
March, 1904, to appropriation	1,000	00		
December 1, 1903, to October 1, 1904, to receipts				
from sources	8,760	22		
Expenditures were as follows:				
December 1, to October 1, by salaries			\$ 7,129	56
December 1, to October 1, by expenses			5,053	51
October 1, 1904, by balance on hand	`		356	32
<u>-</u>			 	

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**\$**12,539 **39 \$**12,539 **39** 

Up to October 1, 1904, there have been 2,111 nuisances complained of and inspected, on which 1,807 notices were sent to owners or agents, and 1,039 abatements were secured. Sixty-four vessels have arrived and discharged their cargoes at this port. Seven hundred and thirty-four persons have been vaccinated, and 699 premises have been disinfected; 4,070 dead animals were removed from the streets; 4,182 children have been excluded from the schools because of their having been in contact with communicable diseases, and 3,431 of these have been permitted to return after the time of detention had elapsed, and no other sickness occurred. There have been 238 inspections made and samples taken of milk since July last, when one of our sanitary officers was detailed to this work. He has since been regularly appointed as a State Inspector of Food. This is an important work and somewhat new to this department. It will receive more attention next year. The number of plumbing inspections and tests made were 453, showing a great activity in the building trades. That this work should be well done to prevent disease resulting from defective and improperly constructed plumbing and drainage systems, makes it an important factor in the future good health of tenants and saves expense of repairs to owners."

Kearny Town.—Members and Officers—H. W. Schmale, President; Geo. F. Lightfoot, M. D., Jos. Smith, Nevin Kennedy; M. W. Clouse, M. D.; Health Officer; John B. Thomson, Secretary; David W. Reid, Registrar; Albert Geissler, Inspector.

Town of Union.-No organized Board of Health.

Weehawken Township.—Members and Officers—Dr. Fendricks, President; F. Bergmann, Jr., John M. Hannan, Patrick McGann, T. Minshull; Elijah Blackhurst, Clerk.

West New York Town.—Members and Officers—J. J. Benson, M. D. President; John D. Rover; John H. Everly, Clerk; Rudolf Kuntze, Geo-Theabold, Inspectors.

### HUNTERDON COUNTY.

Bethlehem Township.—Members and Officers—Wm. Creveling, Pattenburg; Watson C. Wene, Ludlow; J. M. Hoffman, Bloomsbury; D. J. S. Lindabury, Bloomsbury; C. R. Burwell, Secretary, Valley.

Clinton Borough,-Members and Officers-Wm. Knight, M. D., A. S.





Leatherman, M. D., Wm. H. Carpenter, Jas. Mulligan, Geo. A Hall, Secretary.

Clinton Township.—Members and Officers—Willard E. Berkaw, M. D., President, Annandale; Geo. M. Rinehart, Cokesbury; Matthias J. Wiggins, Annandale; John Shurts, Annandale; Bergen B. Berkaw, Secretary, Annandale.

The secretary of the board reported as follows:

"At a meeting of the board of health of Clinton township, Hunterdon county, held this day, it was directed, owing to the irregular manner in which many certificates of vital statistics or facts were sent to the local registrar of vital statistics, that each clergyman, physician and undertaker who shall officiate respectively at any marriage, birth or death occurring in Clinton township, be notified at once that the act approved February 15, 1888, which requires that all certificates of births, marriages and deaths shall be sent to the local registrar of vital statistics (i. e., the assessor of the township of Clinton), within thirty days after the said birth, marriage or death shall have occurred, will be enforced, and that action will be taken by the board under the act approved March 31, 1887, which provides that those who fail to carry out the provisions of the act approved February 15, 1888, as above stated, are liable to a penalty of \$100 for such failure.

In January, 1904, the board made careful disinfection of a row of tenement houses situate within the district, and belonging to the Central Railroad of New Jersey, owing to some cases of diphtheria occurring among the occupants, Italians. Prompt and efficient aid was extended to the board by officials of the railroad company as soon as notified.

No serious epidemics visited the district during the year, although more than the usual amount of sickness prevailed during the severe winter of 1903-04."

Delaware Township.—Members and Officers—Nelson Lambert, Sergeantsville; Alton Lake Sergeantsville; C. B. Johnson, Raven Rock; G. N. Best, M. D., Rose Mont; J. M. Hoppock, Secretary, Sergeantsville.

East Amwell Township.—Members and Officers—E. H. Wilson, John Sloff, Geo. Strumple, P. C. Young, M. D., Edgar Higgins, Secretary, Ringoes.

Franklin Township.—Members and Officers—John E. Anderson, Hiram D. Young, Wm. A. C. Robinson, Q. E. Snyder, M. D., J. L. Agans, Secretary, Pittstown.



## 112 REPORT OF THE BOARD OF HEALTH.

#### HUNTERDON COUNTY—Continued.

Frenchtown Borough.—Members and Officers—E. L. Poore, President; F. H. Decker, M. D., Wm. S. Dalrymple, M. T. Bellis, E. W Moore, Secretary.

Holland Township.—Members and Officers—Walter Burgstreser, President; Herbert Quick, Chas. R. Stull, A. A. Heil, M. D., S. S. Snyder, Secretary; Godfrey Hawk, Registrar. All of Millford.

Junction Borough.—Members and Officers—T. B. Fulper, M. D., President; Robert T. Thomson, M. Frank Fritts, James Splane, Edgar E. Riddle, Secretary.

Kingwood Township.—Members and Officers—John W. Hoff, President, Baptistown; Thomas McAlone, Point Pleasant; Joseph Hann, Barbertown; S. J. Snyder, Secretary, Locktown; Frank S. Grim, M. D., Medical Inspector, Baptistown.

Lambertville City.—Members and Officers—Wm. R. Bowne, President; A. D. Anderson, G. L. Romine, M. D., Harry K. Krammer, Wm. Leary, Edward W. Closson, M. D., Jas. H. Reynolds, Secretary; John L. Coryell, Health Inspector; Chas. Dowdy, City Scavenger.

Readington Township.—Members and Officers—G. G. Conover, President; White House Sta.; P. D. Reese, White House Sta.; J. R. Probasco, Three Bridges; J. C. Voorhees, Secretary, White House Sta.; F. L. Johnson, M. D., Inspector, Stanton.

Tewksbury Township.—Members and Officers—E. B. Conover, Fairmount; Lewis L. Apgar, Mountainville; Jacob J. Neff, New Germantown; Hezekiah Philhower, Secretary, Califon; Theo. Miller, M. D., Inspector, Califon.

Union Township.—Members and Officers—Geo. B. Smith. President; J. J. Tharp, Godfrey R. Emery; John Little, Secretary, Jutland; Edgar Allen, M. D., Health Officer.

West Amwell Township.—Members and Officers—Chas. A. Slack, President, Lambertville; William Cane, Lambertville; Chas. E. Holcombe, Mt. Airy; Geo. H. Carr, Secretary, Lambertville; F. W. Larison, M. D., Inspector, Lambertville.

## MERCER COUNTY.

East Windsor Township.—Members and Officers—Aaron Ely, Hightstown; Frank Chamberlain, Hightstown; E. R. Pickering, Hightstown; S. L. Mount, Secretary, Etra.

Hamilton Township.—Members and Officers.—Alonzo I. Hunt, M. D., President, Hamilton Square; Azariah Cubberly, Hamilton Square; Joel A. Cranmer, Isaac Robbins, Trenton; Wm. E. Ford, Crosswicks; Wm. T. Robbins, Secretary, Hamilton Square; James N. Reed, Inspector, Trenton.

Hopewell Borough.—No organized Board of Health. H. E. Sutphen, Borough Clerk,

Lawrence Township.—Members and Officers—T. B. DeCou, Trenton; John C. Applegate, Princeton; John E. Gorden, Port Mercer; Edmund Dewitt, M. D., Lawrenceville; Frank Pierson, Secretary, Lawrenceville.

Pennington Borough.—Members and Officers—Jas. R. Bergen, Geo. W. Clendening, Benj. T. Taylor, J. C. Bunn, Secretary; Edgar Hart, M. D., Inspector.

Princeton Borough.—Members and Officers—E. H. Loomis, President; Richard Rowland, Gen. Alfred A. Woodhull, Leroy Anderson, Howard Wright, M. D., Joseph Hoff, Thornton Conover, Secretary; V. D. Bayles, Inspector.

Trenton City.—Members and Officers—Chas. P. Britton, M. D., President; Richard R. Rogers, Sr., M. D., Thos. S. Chambers, Francis B. Lee, Howard N. Richards, Elmer Barwis, M. D., Thos. B. Holmes, Secretary; Alton S. Fell, M. D., Health Officer; Wm. C. Allen, Sanitary Inspector; Edward L. Titus, Sanitary Inspector; Geo. W. Feaster, Plumbing Inspector; Howard H. Ely, Clerk; Harry C. Valentine, Solicitor.

Washington Township.—Members and Officers—Chas. Hulse, Allentown; David H. Taylor, Allentown; Chas. Tindall, Windsor; Dr. Silver, Windsor; E. K. Cole, Secretary, Windsor.

# MIDDLESEX COUNTY.

Cranbury Township.—Members and Officers—Jos. C. Chamberlin, President; W. I. Stults, John A. Wyckoff, A. M. Davison, Secretary, Cranbury.

# 114 REPORT OF THE BOARD OF HEALTH.

#### MIDDLESEX COUNTY—Continued.

Helmetta Borough.—Members and Officers—Geo A. Helme, President; A. H. Clemons, J. A. Trimmer, Ira Bowne, R. J. Franklin, Secretary; Edward M. Clemons, Registrar; J. G. Denelsbeck, M. D., Inspector.

Madison Township.—Members and Officers—James Fountain, Browntown; Cornelius Burlin, Browntown; Ambrose Green, Browntown; I. C. Crandall, M. D., Old Bridge; D. H. Brown, Secretary, Browntown; Ed. Barker, Inspector, Cliffwood.

Metuchen Borough.—Members and Officers—A. C. Kelly, President; Frank Orton, W. V. McKenzie, M. D., Chas. Tansig, Secretary; A. C. Ayers, Registrar.

Monroe Township.—Members and Officers—Willard Forman, Jamesburg; C. A. Morse, Prospect Plains; T. M. Appleget, Cranbury; R. R. Vandenburgh, Secretary, Prospect Plains.

Piscataway Township.—Members and Officers—Nelson M. Giles, President, Bound Brook; T. H. Brantingham, South Plainfield; B. D. Giles, New Market; M. J. Whitford, M. D., New Market; Geo. S. Bunting, Secretary, New Brunswick.

Raritan Township.—Members and Officers.—Theodore Ill, New Brunswick; J. T. Dunham, New Brunswick; Peter Lott, Metuchen; W. V. McKenzie, M. D., Metuchen; Wm. T. Woerner, Clerk, New Brunswick.

Sayreville Township.—Members and Officers—August Rohdes, Wm. Burke, Henry Arleth, J. H. Beekman, M. D., B. F. Samsel, Secretary; Chas. Englehardt, Inspector. All of Sayreville.

South Amboy City.—Members and Officers— J. L. White, M. D., President; E. E. Haines, M. D., Jos. A. Sexton, F. E. DeGraw, Secretary; Chas. S. Buckelew, Inspector.

South Brunswick Township.—Members and Officers—Wm. H. Gulick, President, Kingston; J. H. Stults, Cranbury; J. B. Rowland, Monmouth Junction; Wm. Perkins, Secretary, Princeton.

South River Borough.—Members and Officers—Joseph Miller, Jr., John Van Norden, Jesse Selover, Secretary; F. W. Bissett, M. D., Inspector; J. C. Bowne, Registrar.



#### MONMOUTH COUNTY.

Allentown Borough.—Members and Officers—Dr. Imlay, President; Dr. H. P. Johnson, Chas. Spaulding. Josiah S. Robbins, Secretary; William Forsythe, Inspector.

Asbury Park City.—Members and Officers—Theodore H. Beringer, rresident; David W. Sexton, Jesse Minot, Randolph Ross, George H. Wilbur, Asher S. Burton, Harry C. Millar; B. H. Obert, Secretary; H. L. Baumgartner, Inspector; Samuel A. Patterson, Attorney.

The Secretary writes as follows:

On November 1st, 1903, Mr. D. C. Bowen, former Health Officer, Secretary and Registrar of Vital Statistics of the Board of Health, severed his connection with the Board. In recognition of the high esteem in which Mr. D. C. Bowen was held by the Board, the following resolutions were adopted:

Whereas, The resignation of Mr. D. C. Bowen as Health Officer, Secretary and Registrar of Vital Statistics of the Board of Health of Asbury Park, which took effect November 1st, 1903, was accepted with much regret by the Board, and we desire to place on record an expression of the high esteem in which Mr. Bowen has been held both by this community and by this Board during his long term of service. Therefore be it,

Resolved, That we hereby testify to Mr. D. C. Bowen's unwavering integrity; his studious and painstaking acquirement of the principles of municipal hygiene; his devotion to the sanitary advancement of the city; his tireless industry; his adroitness in carrying out the instructions of the Board and in securing compliance with the ordinances; his skill in making records and reports; his readiness to risk health and life, when necessary, in the removal and care of infected persons, and his resourceful dealing with the endless stream of emergencies which beset the path of a municipal health official.

Resolved, That while we regret the loss to Asbury Park of the services of Mr. Bowen, we most heartily congratulate him upon his promotion to a broader field of sanitary labor, and we sincerely wish for his future prosperity and success.

The terms of office of Mr. Nelson E. Buchanon, Hon. James A. Bradley and Mr. George R. Hillier expired May 15th, 1904, and George F. Wilbur, M. D., Asher S. Burton, D. D. S., and Harry C. Millar, D. V. S., were appointed as their successors. The following resolutions were adopted by the Board in recognition of the long and faithful services of Mr. Nelson E. Buchanon and the Hon. James A. Bradley:

Whereas, The retirement of Mr. Nelson E. Buchanon, as President of the Board of Health of the City of Asbury Park, causes regret among the members and calls for some expression and recognition of his long and faithful service to the city, he having served this city as a member of the Health Board since its organization, July 12th, 1880, holding the posi-

#### MONMOUTH COUNTY—Continued.

tion of President of the Board during the past ten years, giving his valuable time and services gratuitously.

Whereas, The standing of this Board has been maintained largely through the untiring efforts and zeal of Mr. Buchanon, he having always stood firm in carrying out the health laws, which in many instances have proved an injury to his own personal interest. Therefore, be it

Resolved, That we record these evidences of our appreciation and high esteem for his long and faithful service to this Board during its infancy and for maintaining its standing throughout his administration as President.

Whereas, The retirement of the Hon. James A. Bradley from membership in the Board of Health of the City of Asbury Park marks an epoch in the affairs of this municipality and calls for some expression of the appreciation in which his service for the promotion of the public health is held by this Board.

Whereas, It is to Mr. Bradley that this community is indebted for the early introduction of public sewers, thereby making possible the abatement of nuisances on nearly every occupied premises in the incorporated district; for early action favoring the introduction of a sure and wholesome public water supply; for the inauguration of a system for the lighting of the streets and for the collection of garbage, rubbish and ashes; for the early establishment (1880) of a local Board of Health, and for the payment from his private funds of all of the expenses of the Board during the first decade of its operations, including the salary of the inspector, office rent, blanks and stationery, and apparatus employed in the various departments of the work; for the provision of a hospital for the reception of cases of infectious diseases, and for ambulances and horses when removal of patients became necessary; for the donation of over two-thirds of the seventy-five acres of land at Spring Hill Park, now owned by the city and devoted to isolation hospital uses; for his foresight and liberality, when founding the future city, in providing large lots and wide streets, thus averting overcrowding in the final development which awaits this favored locality; for his untiring efforts as a member of the board in keeping the city clean and free from all sources of sickness.

Whereas, Mr. Bradley is the pioneer sanitarian in this section of the State, and his determination that Asbury Park shall honestly merit all of the patronage which may be bestowed upon it by persons seeking rest, recreation and health, has resulted in the firm implantation in this community of a high standard of municipal hygiene, and in the cordial support and approval, on the part of the public, of the sanitary progress which has made our city famous throughout the United States. Therefore, be it

Resolved, That we hereby place on record this evidence of our recognition of the great value of the services rendered by Mr. Bradley to the

# MONMOUTH COUNTY—Continued.

city of Asbury Park by his energetic advocacy and wise official application of the principles of municipal hygiene in the conduct of the public affairs of the city.

Resolved, That the gratifying distinction which Asbury Park enjoys as a carefully and intelligently guarded resort, where residents and sojourners are effectually protected against the spread of infectious diseases and against nuisances prejudicial to the public health is very largely due to the official guidance and personal example of Mr. Bradley, and to his influence in the creation of a public health consciencee in this community.

The total number of deaths in Asbury Park for the year ending October 1st, 1904, was fifty-nine, forty-seven among the resident and twelve among the non-resident population. By estimating the resident population at 4,456, the death rate, including all deaths, is 13.24; by including the resident deaths only, the death rate is 10.55. The principal causes of death, as reported,/were: Tuberculosis, 8; pneumonia, 6; nephritis, 5; heart disease, 5; cancer, 4; general debility, or old age, 4; carcinoma, 3; asphyxiation, 2.

The number of births reported for the year, twenty-six, is the lowest ever recorded. During the year the Board brought suit against one of the practicing physicians of this city for failure to report births at which he had professionally attended, and when the papers were served upon him for the suit, he at once made five returns of births, one being five years overdue.

# 118 REPORT OF THE BOARD OF HEALTH.

# MONMOUTH COUNTY—Continued.

rable Showing the Number of Deaths Occurring in Asbury Park Among the Resident and Non-Resident Population Each Year, 1881

Excepted, for the Past Twenty-five Years,

	Resident.		Resident Death Rate		
YEARS.	Population.*	Resident	Non- Resident.	Total.	per 1,000 Population.
1880	1,640	19	13	32	11.58
1882	1,784	30	18	48	16.81
1883	1,856	18	12	30	9.69
1884	1,928	$\overline{24}$	15	39	12.44
1885	2,000	20	14	34	10.00
1886	2,125	21	23	44	9.88
1887	2,250	20	29	49	8.88
1888	2,375	16	18	34	6.73
1889	2,500	28	28	56	11.20
1890	2,625	32	39	71	12.19
1891	2,750	34	28	62	13.36
1892	2,875	35	24	59	12.17
1893	3,000	30	13	49	10.00
1894	3,380	40	21	61	11.86
1895	3,761	39	17	56	10.36
1896	3,838	34	25	59	8.85
1897	3,916	43	19	62	10.98
1898	3,993	28	13	41	7.01
1899	4,071	37	22	59	9.08
1900	4,148	36	22	58	8.67
1901	4,225	37	21	58	8.76
1902	4,302	32	19	51	7.44
1903	4,379	36	13	49	8.22
1904	4,456	47	12	59	10.55

<sup>\*</sup>Resident population estimated, except for years 1880, 1895 and 1900

# MONMOUTH COUNTY.—Continued.

Table Showing Ages at Death in Asbury Park for Year Ending October 1st, 1904.

AGES.	Males.	Females.	Totals.
Under one year	5	<del>  </del>	5
1 to 2 years			
2 to 5 "		† 1 i	1
5 to 10 "		i i	
10 to 20 "	3	2	5
0 to 30 "		2	. 2
30 to 40 "		2	$\overline{2}$
0 to 50 "	` <b>1</b>	2	3
0 to 60 "	8	4	12
30 to 70 "	$\ddot{2}$	4	6
0 to 80 "	5	† 8	13
30 to 90 "	4	5	9
0 to 100 "	í		i
Totals	29	30	59

One case of diphtheria occurred during the year, the patient being a child who was attending the public school. Three cases of scarlet fever were reported during the year. The first case was an adult, thirty-three years of age. The second case was a pupil of the public school, eight years of age. After an absence of two weeks this patient returned to school, and the teacher noticed that the child was picking pieces of loose skin from her hand, and she at once sent the child to the medical inspector of schools, who pronounced it a case of scarlet fever. child was sent home, together with her sisters, of whom there were two in the school, and the family physician confirmed the diagnosis. The source of infection was not learned in either of the above cases. Other pupils from this house attended the public school during the two weeks above referred to, yet, as far as is known, no other case developed from this source of infection. The case was not reported to the Board of Health until seen by the school authorities, the parents stating that the disease was so mild they did not deem it necessary to call in a physician. third case of scarlet fever was an infant, eight months of age, who had been visiting in New York city and developed the disease immediately after his return to his home in this city. One case of typhoid fever was reported during the year, an adult twenty-three years of age. The patient commutes to New York each day, eating his midday meal in said city; a short time preceding the date of attack the patient visited Trenton and

# 120 REPORT OF THE BOARD OF HEALTH.

#### MONMOUTH COUNTY—Continued.

Plainfield, New Jersey, and a town in central New York state, eating at least one meal at each of the places named.

During the past twenty-three years typhoid fever has occurred in Asbury as follows: 1882, 1; 1883, 8; 1884, 5; 1885, 0; 1886, 0; 1887, 0; 1880, 1; 1889, 1; 1890, 0; 1891, 0; 1892, 1; 1893, 1; 1894, 4; 1895, 7; 1896, 1; 1897, 2; 1898, 1; 1899, 3; 1900, 2; 1901, 2; 1902, 3; 1903, 5; 1904, 1.

The public water-supply was introduced in 1886, preceding which date water was obtained from shallow wells on private premises.

One hundred and twenty cases of measles were reported during the year. A child from Philadelphia came to Asbury Park May 1st, visited the public school with her friend on May 2nd, remaining in the same classroom during the entire afternoon session and was said to have had an attack of measles immediately following that period. No physician was in attendance and the Board of Health did not learn of the case until after the child had recovered and many others had been infected. May 15th twelve cases were reported from the grade referred to and the next group were reported ten days later, thirty cases being reported at this time, the infection having spread to other grades in the school. When the cases of the first group were reported the Board of Health made an effort to check the spread of the infection by excluding from school the pupils affected and any others residing in the houses of the different patients. The pupils absent from grades in which cases of measles were known to exist, were reported by the Superintendent of the school twice daily to the health office, and were visited at their homes by the Inspector to learn if they were suffering from measles. cases were thus discovered, no physician being in attendance, which otherwise would not have been discovered by the Board.

### MONMOUTH COUNTY—Continued.

Table Showing the Number of Reported Cases of Infectious Diseases in Asbury Park, and Deaths Occurring Therefrom, During the Past Twenty Years.

				NUMB	ER O	F		 I				
	-		CAS	ES R	EPOR	TED.			]	DEAT	HS.	
YEARS.	RESIDENT POPULATION. (estimated except for census years.)	Measles.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Consumption.	Smallpox.	Measles.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Consumption. Smallpox.
1885	2,000 2,125 2,250 2,375 2,500 2,625 2,750 2,875 3,000 3,380 3,761 3,993 4,071 4,148 4,225 4,379 4,456	14 4 82  10  7 6 39 5 5 4 20 6 17 30 120	32 77 200 33 166 44 77 55 33 144 36  29 22 11	1977 2 2 7 6 2 2 5 5 1 2 2 4 2 2 1 1 1	1 1 1 1 4 7 7 1 1 2 2 2 2 3 3 5 1	1 1  2	8	1	2 1 1 1 2 2 2 1 2 2 1	1 4 4 7 7 1 1 1 2 2 3 1 1 2 2 1 1 1	  1  1 	2
Totals		406	141	77	34	ó	11	1	8	27	4	79 1

During the year the ladies of the Present Day Club of Asbury Park completed the caretaker's cottage on the Municipal Hospital grounds at a cost of \$1:7728.06; they also placed the plumbing in the hospital pavilion at a cost of \$296.05, and have furnished the two wards of said pavilion, consisting of ten beds, ten chairs, ten tables and six screens, at a cost of \$256.10. The water supply has been connected with the said pavilion by the city, at a cost of \$104.00. This pavilion, intended only for infectious diseases, is now ready for instant use. A caretaker has been placed in charge of the Municipal Hospital grounds and is now occupying the caretaker's cottage.

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#### MONMOUTH COUNTY—Continued.

The following rules for the government of the Asbury Park Municipal Hospital for Contagious Diseases were adopted by the Board November 1. Application for admission to the Asbury Park Hospital for Contagious Diseases shall be made in writing to the Board of Health 2. When any such application has been approved by said Board of Health the patient will be removed in a conveyance provided by said Board and will be received in the hospital for treatment. person shall accompany the patient to the hospital except the employees of the said Board of Health, provided, however, that in the case of infants and under special circumstances an attendant will be allowed by special permission from the Board of Health to accompany the patient. 4. The medical care and nursing of all patients who are received in the hospital will be provided by the City Board of Health, and no physician, nurse, or other attendant shall be allowed to perform any service in the hospital without authorization obtained from the Board of Health. 5. All supplies shall be purchased by an inspector or authorized agent of the Board of Health, and no article shall be received in or removed from the hospital building except by the direction of the Board of Health or one of its authorized agents. 6. No person will be treated gratis in the Asbury Park Municipal Hospital for Contagious Diseases. Every person who is received and who is financially able to pay the charges which are imposed, shall pay the same, and in case the patient is without funds and unable to pay the charges fixed for the treatment and care furnished in the hospital. the municipality from which such person is received shall pay all charges incident to the care and treatment of such indigent person. patient and no nurse or other employee shall leave the hospital except by the written consent of the City Board of Health or its authorized agent. A copy of the above rules was sent to each practicing physician in this community.

During the regular sanitary inspection work the search on private premises for breeding places for mosquitoes was continued during the year with the result that mosquitoes were found to be breeding on thirty-four private premises, in miscellaneous receptacles, such as rain-water barrels, wooden tubs, tin cans, etc.; the breeding places were distributed over the entire city and this fact undoubtedly accounts for any mosquitoes present during the summer. Four complaints were made by citizens during the summer, stating that they were being annoyed by the presence of mosquitoes. Investigation showed that in each instance mosquitoes were breeding on a nearby property in some receptacle containing stagnant water.

It now being an established fact that flies play an important part in transmitting certain infectious diseases when permitted to come in contact with excrementitious matter, the Board adopted the following ordinance with a view to abolish all privy vaults, and thus avoid the possi-

## MONMOUTH COUNTY—Continued.

bility of flies disseminating infectious diseases by coming in contact with the filthy contents of such structures:

A Supplement to an Ordinance entitled "The Sanitary Code of the City of Asbury Park, N. J.," adopted August 3rd, 1897.

Section 1. Be it ordained by the Board of Health of the City of Asbury Park, N. J., that in addition to the nuisances already defined in the ordinance to which this ordinance is a supplement, the construction, maintenance, use or continuance of any privy vault, or other receptacle in or upon the ground for human excrement in such a manner that the filthy contents thereof shall be accessible to flies, shall constitute, and is hereby declared to be a nuisance; and the construction, maintenance, use or continuance thereof is hereby prohibited.

Section 2. Any person or corporation violating the provisions of this ordinance shall, on conviction, forfeit and pay a penalty of twenty-five dollars. Adopted July 5th, 1904.

The following notice was ordered by the Board to be sent to the owner or responsible person or corporation of any property in this city on which a privy vault existed in violation of the above ordinance:

Asbury Park, N. J., Aug. 31, 1904.

Dear Sir: Your attention is hereby called to "A Supplement to an Ordinance entitled The Sanitary Code of the City of Asbury Park, N. J.," adopted July 5th. 1904, see copy attached hereto, and you are hereby advised that the privy vault on the premises owned by you No.—————Avenue is maintained in violation of said ordinance.

At the last regular meeting of the Board of Health it was, by motion, ordered that 70u be notified to discontinue the use of said privy vault, to cause the accumulation in said privy vault to be removed and to also cause said privy vault to be filled with clean  $\epsilon$ arth not later than October 1st, 1904.

Eighty-nine privy vaults have been removed during the year and plans for proposed plumbing work necessary to be constructed before privy vaults are abandoned, are now on file in the office of the Board of Health for the removal of twenty-five additional privy vaults; and it is the intention of the Board that before another season every privy vault in the city shall be abandoned.

# 124 REPORT OF THE BOARD OF HEALTH.

#### MONMOUTH COUNTY—Continued.

Table Showing the Number of Privy Vaults in Asbury Park Each Year For Past Eight Years.

h						
YEARS.	Sewer connected vaults.	Vaults not sewer connected.	Total.	Citizens' complaints against privy vaults.	Referred to Sanitary committee.	Found to be defective and leaky.
1897	291	54	345	33	6	2
1898	263	49	312	45	6	1 3
1899	237	42	279	44	4	3
1900	219	38	257	56	4	6
1901	199	38	237	56	4	1
1902	182	33	215	57	4 3	5
1903	156	29	185	66		5
1904	84	12	96	37	2	4

With a view to prevent the spread of infectious diseases in barber shops the following ordinance was adopted:

Be it ordained by the Board of Health of the City of Asbury Park:

Section 1. That all persons who conduct the business of barbering and all who are employed or engaged in the business of shaving or hair cutting shall be governed by the following regulations: (1) Barbers must wash their hands thoroughly with soap and warm water before attending any person. (2) No alum or other astringent shall be used in stick form, but if used at all to stop the flow of blood it must be applied in powder (3) The use of powder puffs, sponges and finger bowls is prohibited. (4) No towel shall be used for more than one person without being washed. (5) Floors of barber shops must be kept clean and free from accumulations of hair, and all furniture and woodwork must be kept free from dust. (6) Hot and cold running water must be provided in every barber shop. (7) Combs, hair brushes, shaving brushes, razors, clippers, scissors, needles, tweezers and forceps shall be sterilized after use on each person by immersion in boiling water or by exposure to live steam in a suitable sterilizer, for not less than ten minutes, or by immersion for not less than ten minutes in a one per cent, solution of tricresol. (8) All combs shall be made of metal. (9) Towels shall not be dipped into warm water tanks. (10) No barber shop shall be used as a dormitory. (11) Razor strops must be kept clean, and should be used only with razors which are sterile. (12) Shaving mugs shall be thor-

## MONMOUTH COUNTY—Continued.

oughly washed before use. (13) Hair dusters shall at all times be kept thoroughly clean and be washed at frequent intervals.

Section 2. Any person who violates any of the requirements of section one of this ordinance shall forfeit and pay a penalty of ten dollars.

Adopted March 1st, 1904.

During an inspection of the twenty-four barber shops in the city the following was learned: Barber shops in which astringents were applied in powder form, eight; astringents applied in stick form, nine; using finger bowls, thirteen; using sponges and powder puffs, one; using towels for wiping hands of barbers which were used on preceding customers, twenty-four, and in a few instances the towels thus used were badly soiled; hot and cold running water. ten; running cold water only, twelve; no running water, two; hot water tanks, three; using metal combs, four; shop used as a dormitory, one.

During the summer it was learned that ice harvested from Deal Lake was being sold by a local company in Asbury Park for domestic uses. Permits for the sale of ice harvested on Deal Lake are granted only for said ice to be used for cooling purposes by butchers, milk, fish, oyster and vegetable dealers and grocers. Notice was at once served upon said company that unless the requirements of the permit issued to them, containing the above restrictions, are strictly adhered to the permit would be revoked. The further sale of the suspected ice was stopped.

On several occasions during the summer an inspector of the State Board of Health collected samples of milk for analysis in this city. A report of the results of the analyses of said samples, received from the State Board of Health, stated "none of the samples of milk collected in Asbury Park fell below the standard required by law and none of them contained a preservative."

Ninety-one specimens of diseased tissues have been sent during the year through this department to the State bacteriological laboratory for diagnosis as follows:

SPECIMEN.	Positive.	Negative.	Unsatis-   factory.	Totals.
Suspected diphetheria	3	27	3	33
Suspected tuberculosis	14	27	0 1	<b>4</b> Ì
Suspected malarial organism	0	' 9	2	11
Suspected typhoid	0	4	0	4
Suspected gonococci	0	1	1	2
Totals	17	68	6	91

There are but four premises in the city on which dwellings are located which are not connected with the public sewer system. Three of these are to be connected in a short time. No change has been made in the final disposal of sewage from Asbury Park. The subject has been discussed during the year, and methods are now being considered by the Council for a more satisfactory disposal, and it is hoped some satisfactory method will be in operation before another year. Before the city acquired possession of the public sewer system, in 1903, the owner of the said system required that when house sewers, with water closets connected to the house drains, were connected thereto, that a catch basin, with grating, must be placed on the house drain. To prevent the increase of this class of nuisances, and to secure ample light and ventilation in water closet compartments, the following ordinance was adopted by the Board:

An ordinance regulating drain connections and requiring ventilation in water closet compartments.

Section 1. Be it ordained by the Board of Health of the City of Asbury Park that no house or house drain shall hereafter be connected with any privy vault, catch basin or cesspool, nor with any drain emptying into any privy vault, catch basin, or cesspee!, not owned by the city of Asbury Park.

Section 2. Be it further ordained, that all water closet compartments placed in any cellar or basement in the City of Asbury Park shall be ventilated by a window or windows opening to the outer air. The area or such window openings shall not be less than four square feet to each one hundred cubic feet of space in such water closet compartment, and no water closet shall be placed in an unventilated room or compartment. not being in a cellar or basement, unless said compartment shall have a window opening to the cuter air, or be ventilated by means of an air shaft or air duct having an area of at least two square feet and the opening to the outer air of such air shaft or air duct shall equal in area that of the shaft or duct.

Section 3. Any person, or persons, or corporation violating any of the provisions of this ordinance, shall on conviction thereof, pay a penalty of twenty-five dollars.

Adopted April 5th, 1904.

Table Showing the Amount and Cost Per Cubic Yard for the Removal and Disposal of Garbage, Dead Animals and Rubbish From Asbury Park, for the Past Six Years.

#### GARBAGE AND DEAD ANIMALS.

YEARS.	Contract Price.		Average Cost Per Cubic Yard.
1899	\$2,400 00	3,652.83	\$0.6570
1900	2,400 00	3,540.94	0.6777
1901	2,400 00	3,601.74	0.6663
1902	2,850 00	3,634.61	0.7841
1903	2,850 00	3,481.97	0.8185
1904	2,850 00	3,849.58	0.7403

#### RUBBISH.

YEARS.	Contract Price.	No. of Cubic  Yards Removed.	Average Cost Per Cubic Yard.
1899	\$2,000 00	7,038.5	0.2841
1900	2,000 00	7,494.0	0.2669
1901	2,000 00	8,410.0	0.2378
1902	2,000 00	8,804.0	0.2271
1903	2,000 00	10,509.4	0.1903
1904	2,000 00	10,437.4	0.1916

The Garbage contractor's daily reports for the past five years show the following number of violations, by householders, of the health ordinances, in the manner of storing garbage and rubbish:

NATURE OF VIOLATION.	1900.	1901.	1902.	1903.	1904.
Premises with leaky metal receptacles	21	44	8	38	36
Premises on which garbage was stored in wooden receptacles	29	42	49	35	22
Garbage receptacles containing an ex-	3	3			1.4
cessive amount of fluids Premisees on which garbage recep-	ŏ 	ં .	3	4	14
tacles were inadequate	22	49	57	20	1
Premises on which garbage was stored in inaccessible places	0	1	1	0	0
Premises on which garbage receptacles		ļ .			
were too large to be conveniently handled	8	1	2	15	i i 5
Premises on which ashes were mixed		_	_		-
with garbage  Premises on which rubbish was mixed	1	0	0	1	3
with garbage	5	1	0	7	4
Premises on which rubbish contained		.,			10
prohibited substances	8	3	1	7	16
Totals	97	144	121	127	101

# MONMOUTH COUNTY—Continued.

The following table shows the number and nature of citizens' complaints received and investigated during the year:

TABLE SHOWING NATURE OF COMPLAINTS RECEIVED.

DATE OF COMPLAINT.	Offensive odors in dwellings due to causes un- known to occupants.	Overflowing and offensive privy vaults.	Overflowing catch-basins.	Placing rejectaments from catch-basins upon the ground or in garbage or rubbish receptacles.	Obstructed drains and defective plumbing.	Offensive water-closets apartment.	Refuse accumulations in back yards.	Placing waste fluids upon the ground.	Keeping fowls in back yards.	Against garbage service.	Leaky and offensive garbage receptacles.	Burning garbage and offensive substances.	Offensive fish markets.	Offensive butcher shops.
1903 . October	· 1			1	1	4	1	1 .;	:::	12 4 2			. <b>.</b> .	<b>.</b>
1904.  January. February. March. April. May June July. August. September.  Totals.	4	11 5 1 2 8 2 1	1 1 6 1 4 4	· · · · ·	1 2 1 2 5 5 6 10 2 35	1 2 2 1 1 1 1	1  4 4 5 13 6	1 2 3  4 3 2 6 1	1  2 3	4 7 9 17 25 25 17 21 17	i		1 1 1 1 1	1 1 1 

#### TABLE SHOWING NATURE OF COMPLAINTS RECEIVED.—Continued.

DATE OF COMPLAINT.	Offensive livery stables.	Offensive private stables.	Unclean streets and street gutters.	Dead animals in public streets.	Dead animals on private property.	Disturbing noises.	Leaky gas pipes and fixtures.	Unclean alleys.	Damp cellars.	Secreted cases of infectious diseases.	Offering for sale immature veal.	Mosquitoes.	Miscellaneous.	Totals.
1903.  October  November  December	    ::::	2 2 1		1 1	 1	1								24 13 5
1904, January. February. March April May June. July August. September.	1 2 2	 1  4 2 8 5 2	1	1 4 4 8 4 2 4 6	1 2 1	  2 1	i	1 2 3 1	1	1 1		1	2 1 3 5 3 6 5 2	8 18 32 34 64 60 72 81 52

#### MONMOUTH COUNTY—Continued.

Four hundred and sixty-three citizens' complaints were received and investigated during the year. One hundred and sixty complaints against the garbage service were lodged, investigation finding fifteen to be unfounded; of the remaining three hundred and three complaints of nuisances, no just cause for complaint was found to exist in twenty-three cases.

Table Showing the Number of Written Permits Issued During the Year, by Months.

MONTHS.	Certificates of approval of plumbing plans.	Constructing stable manure receptacles.	To scavengers.	For collecting butchers' offal and fat.	Burial and transit.	ransit, local.	For collecting garbage from private premises.	To return to public school after infectious diseases.	Totals.
1903. October November December 1904. January February March April May June July August September	10 12 5 3 12 21 26 24 10 10		8 6 1  5 9 7 14 4 11 5	22	3 4 5 5 5 5 2 5 4 6 12 4	1 2 1 2 1 5 1 4 5 3	1	8 61	22 22 13 10 11 25 37 47 111 27 37
Totals	155	3	70	3	59	27	5	71	393

Table Showing Number of Prosecutions for Violating Health Ordinances, for Year Ending October 1st, 1904.

NATURE OF VIOLATION.	No. of suits ordered.	Nuisance abated before case was tried.	Judgment secured.	Cases pending.	Amount of judgments rendered.	Amount of judgments collected.
Of plumbing ordinance	2   2   2   1   3   1	1	1	1		\$25.00
Totals	13		3	1	\$ 100.00	<u> </u>

The defendant in the suit brought for polluting the ground by storing stable manure thereon refused to pay the penalty, whereupon a commitment was taken out and the defendant was sent to the county jail for thirty days. After being confined in jail for three days, he paid the fine and costs of suit.

#### MONMOUTH COUNTY—Continued.

#### OFFICE AND INSPECTION WORK IN ASBURY PARK.

Number of violations of health ordinances reported by inspectors	
during the year	898
Number of re-inspections of premises after notice to abate nuisances	
had been sent	793
Number of citizens' complaint investigated	463
Number of written orders sent for abatement of nuisances	580
Number of cases in which notice to abate nuisances were known	
have been complied with without further action	143
Number of cases referred to the Board with request for instruction	38
Number of written communications sent from the office	1,159
Number of inspections made of plumbing work under construction	439
Number of air-pressure tests applied to plumbing work under con-	
struction	140
Number of smoke tests applied to plumbing work	92
Number of notices for minor alterations and repairs in plumbing	
work, filed by plumbers, and inspections made	48
Number of plumbing plans filed	156
Number of plumbing plans approved	155
Number of specimens sent to State bacteriological laboratory and	
replies received through this office	91
Number of rooms disinfected, by request, after tuberculosis and	
measles	6
Dwellings disinfected after infectious diseases	4

Atlantic Township.—Members and Officers—H. Wyckoff Buck, Bradevelt; S. Trofford Smock, Colts Neck; John H. Polhemus, Phalanx; Chas. V. Scobey, Secretary, Scobeyville.

Avon Borough.—Members and Officers—H. L. Walker, Monroe Newman, Jas. Brighton, E. May, H. M. Dolan, Secretary.

Deal Borough.—Members and Officers—Geo. W. Weart, Jas. E. Hunt, Wm. Hogencamp, Geo. K. Thompson, Frank B. Mesick; Henry D. Harris, Secretary.

Farmingdale Borough.—Members and Officers—Wm. R. Kinmouth, M. D., Edward Imlay, Chas. H. Bond, Levi W. Farry; Frank P. Van Note, Secretary.

Freehold Town.—Members and Officers—H. S. Brown, M. D., S. L. Bennett, Wm. H. Ingling, E. D. Clayton, Alonzo Brower; Theo. Sickles, Secretary.

Freehold Township.—Members and Officers—Peter F. Conover, President; John P. Walker, Millard F. Conover, Grandin L. Clayton, Henry Campbell, Clark Conine; Rulif V. Lawrence, Secretary; Harry Neafle, M. D., Inspector. All of Freehold.

Highlands Borough.—Members and Officers—Augustus Howser, President; R. G. Andrews, M. D., Edward Layton, Edward Pangborn; S. Liming, Secretary.

Holmdel Township.—Members and Officers—Wesley Mason, Keyport; Jonathan Holmes, Holmdel; Jacob O. Lamberton, Hazlet; Aaron Longstreet, Secretary, Keyport; F. V. Thompson, M. D., Inspector, Holmdel.

Manalapan Township.—Members and Officers—Edward Hendrickson, Englishtown; J. C. Sutphen, Tennent; W. C. Hartshorn, Milhurst; A. T. Applegate. M. D., Englishtown; S. C. Bowne, Assessor, Tennent; G. B. Conover, Clerk, Englishtown.

Manasquan Borough.—Members and Officers—A. Howell Miller, President; John Chapman, Geo. Mount; Robert M. Marks, Secretary; Samuel Garrison, Inspector.

Marlboro Township.—Members and Officers—Geo. A. Quackenbush, Englishtown; D. A. Baird, Marlboro; H. P. Hayward, Marlboro; J. D. Ely, M. D., Marlboro; W. C. McElwaine, Secretary, Englishtown.

Middletown Township.—Members and Officers—Chas. Grossinger, Chairman; Leonardsville; R. Lufburrow, Middletown; D. W. Vannote, Belford; Geo. C. Henry, Belford; W. B. Conover, Middletown; Henry D. Smith, Secretary, Middletown; O. W. Budlong, M. D., Inspector, Belford.

Millstone Township.—Members and Officers—John H. Ely, Chairman, Perrineville; S. Perrine Day, Perrineville; Winfield S. Chambers, Perrineville; Wm. T. McMellen, M. D., Perrineville; Geo. J. Ely, Secretary, Cranbury.

Neptune City Borough.—Members and Officers—Stephen H. Hendricks, President; Pierson Gilbert, Howard Van Brunt; Whitfield Smith, Secretary; C. Hubbard Morris, Inspector. All of Bradley Beach.

Ocean Grove.—Members and Officers—A. E. Ballard, President; W. H. Wardell, L. Wilson, E. N. Cole; H. B. Alday, M. D., Secretary; J. H. Alday, M. D., Health Officer.

Raritan Township.-Members and Officers-Augustave Mauer, 'Presi-

#### MONMOUTH COUNTY—Continued.

dent; J. Frank Mason, Wm. C. Smith, Abram Huylar, Chas. F. Tuthill; Rufus C. Walling, Secretary; Jas. M. Walling, Inspector.

Red Bank Town.—Members and Officers—C. D. Warner, President; F. P. Stryker, B. H. Garrison, M. D., John Sheehan; James H. Sickles, Secretary; Elwood Minugh, Inspector.

Shrewsbury Township.—Members and Officers—A. L. Ivins, President, Red Bank; Forman R. Smith, Fair Haven; Wm. T. Parker, Little Silver; Wm. H. Houston, Red Bank; Wm. A. Van Schoick, Red Bank; Victor A. Ligier, Oceanic; A. C. Harrison, Secretary, Red Bank; Wm. Churchin, Inspector, Fair Haven.

Spring Lake Beach Borough.—Members and Officers—S. R. Knight, M. D., J. G. Newman, E. W. Remsen, W. D. Robinson; D. H. Hills, Secretary. All of Spring Lake.

Upper Freehold Townshio.—Members and Officers—I. S. Dawes, President, Imlaystown; Thos. I. Smith, Red Valley; Elmer E. Polhemus, Cream Ridge; Wm. Quicksill, Assessor, Hornerstown; F. C. Price, M. D., Secretary, Imlaystown.

Wall Township.—Members and Officers—E. C. White, S. Bartley Pearce, Chas. Gifford; Geo. E. Rogers, Secretary, Belmar.

#### MORRIS COUNTY.

Boonton Town.—Members and Officers—S. L. Garrison, President; J. E. Dunn, Cora Byrnes, E. C. Lyon; N. A. Myers, Secretary; A. E. Estler, Health Inspector.

Butler Borough.—Members and Officers.—G. E. Coates, M. D., President; Rudolph Guenter, E. P. Smithyman; Samuel K. Owen, Secretary; Allen Looker, Registrar.

Chatham Borough.—Members and Officers—Jos: H. Conklin, President; Jos. E. Pollard, M. D., Walter V. Sayre, Geo. E. Hall; D. H. Crawford, Secretary; John J. McCormack, Inspector; Ralph E. Lum, Attorney.

Dover City.—Members and Officers—Chas. A. Otto, President; Eugene Buchanan, Eustice Rudine; S. B. Johnson, J. H. C. Hunter, Secretary; John G. Taylor, Inspector.

## MORRIS COUNTY—Continued.

Jefferson Township.—Members and Officers—Cyrus Weaver, Oak Ridge; Wm. Smith, Newfoundland; John Tierney, Woodport; John Walters, M. D., Wharton; Chas. Chamberlain, Secretary, Woodport.

Madison Borough.—Members and Officers—Calvin Anderson, M. D., President; I. N. Van Dewater, Samuel Brant, Chas. B. Gee; Chas. E. Cook, Secretary; Fred. Burnett, Inspector.

The Secretary of the board reported as follows:

The sanitary condition of Madison is remarkably good, and is very carefully looked after by all members of the board, who give up much valuable time to the work without any remuneration.

The town of Madison needs very badly a sewer system, and the board of health, together with the council, have been working for three years past to install a system. We are out of reach of trunk sewers, and have had plans made for building filtration and disposal beds. It is difficult to educate the people to the necessity of sewers, and as nothing can be done except by majority vote of the borough, the matter is in abeyance.

Mendham Township.—Members and Officers—Geo. W. Savage, Brookside; Madison M. Connett, Brookside; John Quimby, Mendham; Geo. S. DeGroot, M. D., Mendham; John B. Dolan, Secretary, Mendham.

Morris Township.—Members and Officers—Alfred M. Armstrong, Chairman; Phoenix Miller, Lewis E. Clark, Watson A. Barton; J. P. Jamieson, Clerk, Morristown.

Mt. Olive Township.—Members and Officers—Wm. R. McPeak, Chairman, Mt. Olive; John G. Budd, Budd Lake; W. H. Sharp, Flanders; S. W. Salmon, Secretary, Mt. Olive; W. S. Foster, M. D., Inspector, Flanders.

Randolph Township.—Members and Officers—John L. Connolly, Mine Hill; J. F. C. Bryant, Ironia; Jas. O. Wright, Jr., Mt. Freedom; D. H. Dalrymple, Secretary, Dover.

Roxbury Township.—Members and Officers—David B. Jardine, Kenvil; Theo. F. King, Ledgewood; James N. Hulse, Port Norris; Thos. K. Wilkinson, Secretary, Ledgewood.

Washington Township.—Members and Officers—John A. Parker, Schooleys Mountain; Matthias Fleming, Parker; Edward Sutton, M. D., German Valley; Geo. H. Sliker, Secretary, Pleasant Grove; Mahlon Van Nest, Inspector, German Valley.

#### MORRIS COUNTY—Continued.

Wharton Borough.—Members and Officers—H. W. Kice, M. D., President; Robert F. Oram, Miller P. Castner; James Williams, Secretary; Daniel J. Kettrick, Inspector.

#### OCEAN COUNTY.

Beach Haven Borough.—Members and Officers—John F. Fox, President; T. E. Gifford, T. Cale; W. F. Beer, Secretary; T. A. Gavin, Inspector.

During the year the water mains were extended 1,340 feet.

Dover Township.—Members and Officers—W. Scott Jackson, President, Toms River; Bartine Clayton, Silverton; A. A. Dunham, Toms River; T. B. Irons, Toms River; Frank Brouwer, M. D., Toms River; U. S. Grant, Secretary, Toms River.

Eagleswood Township.—Members and Officers—H. G. Shinn, West Creek; J. W. Holman, West Creek; Jonathan Cox, West Creek; C. H. Conover, M. D., Tuckerton; E. T. Cranmer, Secretary.

Lacey Township.—Members and Officers—John B. Wilbert, Forked River; B. F. Holmes, Forked River; Reuben Tilton, Lanoka; B. F. Mathews, Secretary, Forked River; G. E. Wallace, M. D., Inspector, Forked River.

Lakewood Township.—Members and Officers—John L. Reid, President; John Shearman, Jacob Skidmore, G. MacMillan, M. D.; Ernest E. LeCompte, Secretary; Richard B. Robbins, Inspector. All of Lakewood.

Ocean Township.—Members and Officers—J. R. Stokes, Chairman; Wm. B. Wilkins, Chas. F. Jones; Oscar Brown, Secretary.

Point Pleasant Beach Borough.—No organized Board of Health. Abraham Lower, Borough Clerk.

Sea Side Park Borough.—Members and Officers—Chas. Harker, M. D., H. E. Clayton, Chas. B. Coles, L. J. Stone; G. H. Thatcher, Secretary.

Stafford Township.—Members and Officers—Joshua Hilliard, M. D., President Manahawkin; Edward E. Predmore, Manahawkin; James H. Aker, Mayetta; Benj. Oliphant, Manahawkin; John B. Courtney, Secretary, Manahawkin.

#### OCEAN COUNTY-Continued.

Tuckerton Borough.—Members and Officers.—T. T. Price, M. D., President; Wm. S. Steelman, James W. Parker, Barzillai Pullen; J. Frank Mathis, Secretary.

#### PASSAIC COUNTY.

Manchester Township.—Members and Officers—Samuel Rogers, Chairman; Chas. Erving, Andrew Van Riper; Geo. V. Spangenmacher, Secretary; A. A. Lydecker, M. D., Health Inspector: Richard Krowley, Assistant Inspector. All of Haledon.

Paterson City.—Members and Officers—Andrew F. McBride, M. D., President; John H. Banta, M. D., Frank J. Van Noort, M. D., John R. Hurley, Franklin Van Winkle; J. Alex. Browne, Health Officer; Jas. P. McNair, Secretary; John T. Pollitt, Registrar; Wm. H. MacDonald, Plumbing Inspector; Jas. Fitzpatrick, Sanitary Inspector; Wm. S. Green, M. D., Sanitary Inspector; James Higgins, Counsel.

Pompton Township.—Members and Officers—Jas. E. Sloat, President, Midvale; Edward J. Brown, Erskine; Walter C. White, Butler; David Beam, Secretary, Midvale; D. N. Shippee, M. D., Inspector, Wanaque.

Pompton Lakes Borough.—Members and Officers.—John L. Porter, John F. Ball, John Fraser; H. L. Wells, Secretary; C. M. Hawes, M. D., Inspector.

Prospect Park Borough.—Members and Officers—Andrew Hopper, President; Garret Planten, H. W. Street, Geo. Bell; Jacob Doele, Clerk; A. A. Lydecker, M. D., Inspector, Haledon.

West Milford Township.—Members and Officers—Chilleore Loroe, President; D. E. Drake, M. D., M. J. Shippee, Wm. Eckhart; Celestine Schulster, Secretary, Echo Lake.

#### SALEM COUNTY.

Alloway Township.—Members and Officers—Chas. Timberman, President, Alloway; Warren L. Ewen, M. D., Alloway; Jos. Garton, Cohansey; Jeremiah S. Watson, Aldine; Wm. E. Simkins, Clerk, Aldine.

#### SALEM COUNTY—Continued.

Elmer Borough.—Members and Officers—Wm. B. Barnart, A. B. Woodruff, M. D., Frank Sturr, Jos. M. Garrison, J. Harry Kandle; Hiram Van Meter, Secretary.

Lower Penns Neck Township.—Members and Officers—J. H. Jenkins, President, Pennsville; D. F. Dixon, Salem; A. B. Batten, Pennsville; W. H. James, M. D., Pennsville; J. G. Mitchell, Secretary, Pennsville.

Oldmans Township.—Members and Officers—H. T. Johnson, M. D., R. Lee Sailor, F. J. Gaventa, J. J. Hunt; Levi C. Justice, Secretary. All of Pedricktown.

Penns Grove Borough.—Members and Officers—James D. Tarton, President; Walter S. Springer, John C. Simpkins, Nathan S. Wood; Henry M. Flanagin, M. D., Secretary.

Pilesgrove Township.—Members and Officers—S. A. Ridgway, E. C. Moore, Clement McAllister; D. F. Davis, Secretary. All of Woodstown.

Pittsgrove Township.—Members and Officers—A. J. Fox, President; John Dillmore, C. S. Atkinson; Geo. Schalick, Secretary, Centreton.

Quinton Township.—Members and Officers—F. B. Husted, M. D., President, Quinton; Andrew Harris, Quinton; Wm. Hood, Quinton; Levi P. Horner, Cohansey; Josiah T. Harris, Secretary, Quinton.

Salem City.—Members and Officers—Henry Chavanne, M. D., President; Ellen B. Smith, M. D., Thos. Waddington; Clinton Bowen, Secretary; A. T. Walton, Sanitary Inspector.

The Secretary of the board reported as follows:

Eleven wells at the water works, varying from 240 to 500 feet deep, have been constructed, and good water furnished. During the year, the lowlying lands of the east side of the city have been drained, and a tenyear contract given to keep them free, thus insuring much improved sanitary conditions. The laying of improved street pavements, and the system of keeping them clean, together with extension of public sewers, are regarded as a decided advance in the permanent sanitary condition of the city.

Upper Penns Neck Township.—Members and Officers—Joseph E. Clark, Wilmer Layton, William Sailor; Geo. W. Hewitt, Secretary, Penns Grove.

#### SOMERSET COUNTY.

Bedminster Township.—Members and Officers—Chas. Hoffman, Pottersville; R. B. Duycknick, Lamington; J. M. Pickell, Peapack; J. B. Beekman, M. D., Bedminster; E. F. Farrow, M. D., Peapack; M. C. Smalley, M. D., Glandstone; W. D. Vanderbeek, Secretary, Gladstone.

Following is a report of an inquiry conducted by Mr. Geo. W. McGuire, Chief Inspector, concerning the origin of cases of typhoid fever in Bedminster Township, September, 1904:

On my arrival at Gladstone on the 8th inst., I called on Dr. M. C. Smalley and Dr. E. F. Frear, who gave me information concerning cases under their care. Gladstone and Peapack are practically one village, although under separate government. They contain about 900 inhabitants. The one main street is about one mile long with lateral streets running irregularly toward the west and on the east is a range of hills with few if any buildings. Since the first case, June 5th, 1904, there have been five verified cases and one suspected case. The history of these cases was obtained by visits to the houses where the disease existed, supplmented by the records of the physicians in charge. The following are the names of the patients with the dates of first medical attendance: David Melick, June 5th, 1904; Isaac Hockenberry, Aug. 8th 1904; Mrs. John Wyckoff, Aug. 28th, 1904; Elizabeth Schenck (colored) Aug. 24th, 1904; Elias Howell, Aug. 30th, 1904; Edward Murphy (suspect), Aug. 26th, 1904. The first case was located on Main street about the center of the village and the outbreaks occurred at a distance of about 1,000 to 2,000 feet from each other, taking a triangular course, the suspected case being on the main street about a half mile from the first case. The water supply of the persons having typhoid is obtained as follows: Filtered cistern water, 4: Well, 1; spring in field, 1. The four cisterns are said to be properly cemented and are apparently protected against pollution. The one well is on high sloping ground remote from kitchen drainage or other contamination. The one spring is in a field well covered and carefully protected from drainage. Milk is furnished by the one local milk dealer to three of the sick families. Two are supplied by one can and the first case was furnished milk from a neighbor's cow. There has been no sickness on the premises of John A. Doremus, the local milk dealer and producer, and his water supply (springs) appears to to uncontaminated.

The first case (David Melick) was no doubt imported into the village. Melick was a law student in New York, where he spent every day until taken sick at his mother's house in Gladstone. It does not seem possible to trace any direct connection between the cases except possibly one.

#### SOMERSET COUNTY—Continued.

Isaac Hackenberry had spent two or three days in Newark from July 4th. He began to sicken about Aug. 1st. In the meantime he was milking his cow and supplying Mrs. John Wyckoff with milk. She was taken sick Aug. 28th. The examination shows that the discharges from all the patients were deposited in the privies on the infected premises, without ease, and in some cases weeks elapsed after infection until the disease was named. I recommended to the Secretary of the local health board the immediate cleansing and disinfection of the privy vaults on all infected premises in order to prevent the further spread of the fever through the medium of flies.

Bernards Township.—Members and Officers—J. D. Cross, Van Cleve Meeker, Thos. Douglass; S. S. Baldwin, Secretary, Liberty Corner.

Bound Brook Borough.—Members and Officers—R. H. Brokaw, President; C. R. P. Fisher, M. D., M. W. Baxter; W. S. Negus, Secretary; Chas. McNabb, Inspector.

The Secretary of the board reports that after a good deal of agitation and discussion, the borough authorities have taken steps to secure the abatement of the nuisance caused by the collection of stagnant water in what is known as the gravel pit section of the borough. Bids have been asked, and the total expenditure for this work will in all probably reach \$10,000. The sewer system of the borough will be extended during the coming year.

Branchburg Township.—Members and Officers—A. B. Brokaw, Neshanic Station; James Mingle, North Branch; John C. Stryker, Readington; Henry W. Davis, M. D., North Branch; Peter L. Brokaw, Secretary, Centreville.

Four cases of diphtheria occurred.

Bridgewater Township.—Members and Officers—Bernhardt Meyer, President, Somerville; Jas. Q. Ten Eyck, Somerville; Wm. Harris, Somerville; Christopher Ehni, Raritan; Oscar Dow, Raritan; F. T. Rose, Secretary, Somerville; L. M. Lanning, M. D., Inspector, Somerville.

Franklin Township.—Members and Officers—Wm. A. Cortleyou, Franklin Park; N. S. Wilson, Millstone; Elias Baker, New Brunswick; L. J. Suydam, Secretary, New Brunswick, R. F. D. No. 5; J. Howard Cooper, M. D., Middlebush.

Hillsboro Township.—Members and Officers—J. Vred Opie, Somerville; John V. M. Sutphen, Three Bridges; G. Spencer Van Cleef, Millstone; Wm. H. Merrell, M. D., South Branch; Jos. H. Van Cleef, Assessor, Millstone.

## SOMERSET COUNTY—Continued.

Millstone Borough.—Members and Officers—S. O. B. Taylor, M. D., Presdent; E. M. Davis, Wm. Esler, Jas. H. Hagaman, John P. Ditmars, Wm. C. Kitchen; Wm. H. Polhemus, Secretary.

Montgomery Township.—Members and Officers—Geo. W. Campbell, President, Griggstown; Henry A. Duryea, Blawenburg; C. B. Allhouse, Skillman; A. B. Mosher, M. D., Griggstown; Wm. I. Robinson, Secretary, Belle Mead.

North Plainfield Borough.—Members and Officers—Andrew Love, President; D. C. Adams, M. D., John McLaughlin, J. O. Osgood; Rev. W. E. Honeyman, Secretary; Wm. N. Pangborn, Inspector.

North Plainfield Township—Members and Officers—Benj. Black, Scotch Plains; Wm. Titus, Watchung; Albert Brokaw, Dunellen; A. P. Voorhies, Secretary, Plainfield.

Rocky Hill Borough.—Members and Officers—Theodore Stryker, President; A. C. Skirm, W. N. Stults, Malvin Reeve, M. D.; Elmer R. Logan, Clerk.

Somerville Town.—Members and Officers—A. L. Stillwell, M. D., President; Thos. H. Flynn, M. D., John B. Osbourn, John E. Wehrly, Wm. R. Suphen, Secretary; Geo. D. Totten, Inspector.

Warren Township.—Members and Officers—H. P. Williams, President; J. Gunten, F. Alletta; E. E. Sage, Secretary, Gillette.

#### SUSSEX COUNTY.

Andover Borough.—Members and Officers—J. C. Clark, M. D., President; S. S. Wills, Thos. Decker, S. H. Willson; W. E. Willson, Secretary.

Andover Township.—Members and Officers—C. C. Cox, President, Lafayette; Jos. Longcon, Sparta; Geo. M. Ackerson; J. C. Clark, M. D., Andover; Wm. Iliff, Clerk, Lafayette.

Branchville Borough.—Members and Officers—E. S. Dalrymple, M. D., J. M. Jarvis; J. H. Quick, Secretary.

Fredon Township.—Members and Officers—David R. Warbass, Newton; Benj. Fritts, Newton; Geo. Van Horn, Newton; E. W. Sander, Stillwater; Jos. E. Huff, Secretary, Newton.

#### Sussex County—Continued.

Green Township.—Members and Officers—C. L. Cook, Newton; A. Hull, Huntsville; N. Coleman, Tranquility; I. L. Labar, Secretary, Tranquility.

Hampton Township.—Members and Officers—A. J. Williams, Balesville. M. H. Northrup, Baleville; J. Martin Couse, Halsey; J. W. Thompson, Secretary, Blair.

Hardygion Township.—Members and Officers—Caleb Farber, Hamburg; Robert Edsall, Hamburg; J. Stephens, Franklin; L. R. Congleton, Secretary, Hamburg.

Hopatcong Borough.—Members and Officers—Lewis S. Pilcher, M. D., President; John Aldred, R. S. Baker, Dwight B. Smith; Theo. A. K. Gessler, D. D., Clerk. All of Landing.

Montague Townshlp.—Members and Officers—John Bigart, Port Jervis, N. Y.; Cora J. Bell, Port Jervis, N. Y.; Timothy Shay, Hainesville; Geo. McCarty, Secretary, Port Jervis, N. Y.

Newton Township.—Members and Officers—Shepard Voorhees, M. D., President; Lewis J. Martin, John N. Calbin, Geo. M. Harris; Geo. B. Case, Secretary; I. L. Hallock, Inspector. All of Newton.

Sandyston Township.—Members and Officers—Adam Van Syckle, F. M. Shay, E. Rosenkrans; Warren Van Sickle, Assessor; M. D. Hughes, M. D., Secrtary. All of Layton.

Sparta Township.—Members and Officers—L. C. Burd, Ogdensburg; W. H. Beatty, Sparta; R. H. Earls, Sparta; J. W. Maseker, Clerk, Sparta.

Stanhope Borough.—Members and Officers—John McMickle, President; Thos. E. Haggerty, Isaac Kinnicutt, Stephen Thompson, John H. Slaght; Austin S. Van Arsdale, Secretary.

Stillwater Township.—Members and Officers—John R. Kice, President, Stillwater; C. A. Lewis, Stillwater; E. W. Landes, M. D., Stillwater; W. E. Sitman, Swartswood; O. Van Horn, Secretary, Stillwater.

Wantage Township.—Members and Officers—Frank Coe, Irvin Brink, Lebens Martin, W. T. Wright; S. M. Parcell, Secretary. All of Sussex.

#### UNION COUNTY.

Clark Township.—Members and Officers—Wm. J. Thompson, Benj. O. King, Edwin Mays, Wm. E. Cladek, M. D.; F. P. Bullman, Secretary. All of Rahway.

Elizabeth City.—Members and Officers—John W. Whelan, President; L. R. Brown, M. D., J. S. Green, M. D., Louis Quien, C. E., S. T. Quinn, M. D., E. R. O'Reilly, M. D., A. Stern, M. D.; Jas. J. Manning, Clerk; Louis J. Richards, Health Officer; Patrick J. Connell, Henry Toole, Inspectors.

Fanwood Township.—Members and Officers—Thos. J. Nicholl, President, Scotch Plains; T. R. Bruchman, Scotch Plains; Edward V. Goodman, Ashbrook; Chas. H. French, Secretary, Westfield; F. W. Westcott, M. D. Inspector, Fanwood; Wm. R. Coddington, Counsel, Plainfield.

Linden Borough.—Members and Officers—H. B. Hardenburg, President; Wm. McDonagh, H. L. Browning, Jr., D. N. Hetfield, H. D. Huston, Philetus Smith, Wm. C. Hill; R. S. Cole, Secretary; Wm. H. Donaldson, Inspector.

Linden Township.—Members and Officers—W. E. Mitchell, President, Linden; George. McGilloway, Jr., Linden; John P. Winans, Tremley; H. Page Hough, M. D., Rahway; Asa E. Collins, Clerk, Linden; Wm. T. Day, Inspector, Roselle.

Mountainside Borough.—Members and Officers—H. W. Moffett, President; J. W. Badgley, J. Millett; J. O. Conners, Secretary; G. Boyton, Inspector.

New Providence Borough.—Members and Officers—Jas. G. Alden, President, West Summit; L. B. Coddington, New Providence; W. C. W. Aufermann, Murray Hill; A. G. Nason, Murray Hill; Wm. Woodruff, Secretary, New Providence; John H. Dickinson, Inspector, New Providence.

New Providence Township.—Members and Officers—Henry S. Fullerton, President, Scotch Plains; Victor Mercier, Berkley Heights; Geo. Wahl, Berkley Heights; W. C. Johnson, Clerk, New Providence.

Plainfield City.—Members and Officers—Chas. J. Fisk, President; Fred W. Dunn, T. S. Davis, M. D., Chas. H. Dunham; B. Van D. Hedges, M. D., Secretary; L. R. Thurlow, Health Officer; Wm. Addis, Sr., Health Inspector; Miss H. O. Mattison, Registrar.

The Secretary writes as follows:

During the year the following diseases were reported: Diphtheria, 114 cases, 5 deaths; scarlet fever, 47 cases, 1 death; typhoid fever, 26 cases, 4 deaths; smallpox, 1 case; chicken-pox, 74 cases, no deaths; measles, 161

#### Union County—Continued.

cases, no deaths; tuberculosis, 49 cases, 40 deaths. Total cases, 472; total deaths, 50.

On January 20th a case of smallpox was reported in the person of a colored man, Alexander Stills. Stills was employed as a barber in one of the better class barber shops in Plainfield. As far as could be ascertained, the source of infection was from a traveling salesman, who came from a barber supply company in Philadelphia. The patient was immediately removed to our isolation hospital. Every one who was in any way exposed to the disease was vaccinated, and, according to our custom, kept under observation by a physician every day for two weeks. The barber shop was thoroughly cleansed and disinfected, and all instruments, cups, fixtures, etc., sterilized. No secondary case developed. After ten weeks of illness, the man was released. Gratuitous vaccination was offered to the public last winter, but few people responded because of the thoroughness of the vaccination the previous year.

The Board has felt the need of a hospital where cases of scarlet fever and diphtheria could be isolated. At present there is no such institution in Plainfield, but an isolation ward is to be built shortly in connection with our new hospital.

In June, 1904, a thorough house to house sanitary inspection was started. This work lasted during the summer, but we were unable to entirely finish. Seven hundred and seventy-nine premises were inspected. lowing are the tabulated results of the entire inspection:

Total number premises inspected	779
Defective plumbing system found	38
Accumulation of ashes and garbage	2
Accumulation of garbage	2
Accumulation of manure	10
Privy vaults which required cleaning	198
Cesspools which required cleaning	1
Abandoned privy vaults not properly filled up	8
Abandoned cesspools not properly filled up	:

The following notices were served in connection with the above work: Notices to abate nuisances, 102; notices to abolish vaults, 323; notices to abolish cesspools, 94; notices to connect with sewer, 179.

Regular periodical inspection of dairies has been made as outlined in previous reports. Each dairy is visited as often as once a month, and records are kept of these inspections. Samples of all the milk sold in Plainfield are frequently analyzed. The records of dairy inspections and milk analysis are open to the public at all times.

The following is the list of the cemeteries within the limits of the city of Plainfield, and their keepers: St. Mary's Cemetery-Daniel McCarthy; M. E. and Baptist-Thos. Morcom.

#### UNION COUNTY—Continued.

A new filing system has been installed in the office, and an exact copy of all marriage, birth and death certificates is kept. There is but one private hospital in Plainfield—Muhlenberg Hospital. This hospital has just moved into a new building, which is well equipped and well situated. A contagious disease ward is soon to be built. During the year numerous violations of the ordinances have been tried before the City Court, and in every case, the Board has succeeded in getting a conviction. One hundred and twenty-five dollars was received in fines, this being paid to the Treasurer of the city. Fourteen meetings were held during the year.

The problem of obtaining a municipal collection and disposal of the city's garbage was taken up with a great deal of energy during the year. The present system of garbage collection is most unsatisfactory; the collectors are private individuals, licensed by the Board of Health to carry on this business. The work is done by incompetent men, in a slovenly way, and consequently is of much annoyance to both the public and the Board of Health. The matter was put in the hands of a joint committee from the Board of Health and the Common Council, and after studying the situation in Plainfield, the committee advised the construction of a crematory and the installation of a system of collection under municipal control. This measure was not adopted for the summer of 1904, but we have every hope that a satisfactory system for the collection and disposal of garbage will be established before the beginning of the summer of 1905

Rahway City.—Members and Officers—James H. Terril, President; W. E. Cladek, M. D., E. B. Selover, M. D., C. B. Holmes, M. D., Geo. R. Vansant; Chas. H. Angleman, Secretary; Fred J. Mix, Inspector.

# The Secretary of the board reported as follows:

There has been 142 complaints of nuisances filed with the Board of Health since January 1st last. All of these nuisances have been abated. We have a new sanitary code governing the collection of garbage, ashes, etc., and the cleaning of cesspools and privies, which code went into effect on the 20th day of June, last. Under the provisions of this code there have been several connections made with the sewer, thus eliminating one of our chief troubles, outside water-closets. There is a fee of \$20 for a license to clean privy vaults and cesspools. We have had two such licenses taken out. There is also a fee of \$20 each for a license for the privilege of carting garbage and ashes and disposing of the same. There are three such licenses issued at the present time.

Under the milk ordinance, there have been issued since same went into effect thirty-eight licenses, eight of which are for stores.

There has been reported to this office, the following cases of communicable diseases:

Diphtheria, 13; scarlet fever, 36; typhoid fever, 4; purulent ophthalma, 1.

#### UNION COUNTY—Continued.

Deaths from preventable diseases: Scarlet fever, 1; typhoid fever, 2.

Roselle Borough.-Members and Officers-H. C. Pierson, President; M. W. Sewall, J. W. Hope, W. B. Hadley; W. J. D. Chandler, Secretary; G. A. 'Rawlins, Registrar; J. H. Kinney, Inspector.

Roselle Park Borough .- Members and Officers - William Kingsland, President; Patrick Cooley, Arthur Cocks, Chas. Englehart, Simon Bermingham; Arthur Churchill, Secretary.

Springfield Township .- Members and Officers-James Vanworthway, Richard Trioett, John L. Denmann; Lewis T. Terry, Secretary; J. A. Stites, M. D., Inspector. All of Springfield.

Summit City.—Members and Officers—Wm. H. Risk, M. D., President; Henry Atterbury, Wm. D. Gibly, Wm. H. Lawrence, M. D., Col. A. B. Wallace; T. J. Scott, Secretary; Wm. McMane, Health Officer.

Union Township.—Members and Officers—Walter A. Miller, President, Hilton; John H. Doremus, Lyons Farms; D. B. Wade, Union; D. Hobart Sayre, Secretary, Union.

Westfield Town.-Members and Officers-Joseph B. Harrison, M. D., President; Geo. L. Delatour, H. H. Butler, Edward Edgar; C. W. Harden, Secretary; Sherman Cooper, M. D., Medical Officer; Wm. Addis, Sr., Plumbing Inspector.

#### WARREN COUNTY.

Allamuchy Township.-Members and Officers-C. W. Puffer, President, Allamuchy; G. W. Guest, Allamuchy; Richard E. Martin, Hackettstown; L. C. Osmun, M. D., Hackettstown; T. G. Dunlap, Inspector, Allamuchy; Benj. A. Hendershot, Clerk, Allamuchy.

Blairstown Township.—Members and Officers—Wm. C. Howell, Blairstown; Chas. Heldemore, Blairstown; H. P. Linaberry, Vail; W. S. Perry, Secretary, Delaware; Henry O. Carhart, M. D., Inspector, Blairstown.

Hackettstown Town.-Members and Officers-F. M. Cook, M. D., President; Alden E. Martin, M. D., Augustus W. Cutler, Thos. S. White,

#### WARREN COUNTY—Continued.

Richard G. Clark, James Tamblyn, Alfred Hoffman; Frank P. Titus, Secretary.

Harmony Township.—Members and Officers—Irvin B. Smith, Rocksburg; H. B. Bassard, M. D., Phillipsburg; J. M. Rush, Stewartsville; Geo. M. Amey, Phillipsburg; Freeman Schuler, Secretary, Rocksburg.

Independence Township.—Members and Officers—W. K. Teel, Vienna; J. T. Lomerson, Vienna; A. B. Leigh, Danville; W.H. McCormick, Hackettstown; F. W. Haggerty, M. D., Secretary, Vienna.

Oxford Township.—Members and Officers—L. B. Hoagland, President; Jas. W. O'Bryan, Geo. Wildrick, John H. Hildebrant; Michael Mountain, Secretary, Oxford.

Pahaquarry Township.—Members and Officers—Garnet Gariss, Richard Lutes, Jason Spangenberg; Jason K. Hill, Secretary, Millbrook.

Phillipsburg Town.—Members and Officers—Jos. Pfeiffer, President; Francis Drake, M. D., P. F. Hagerty, Michael Lynch, Henry Bercaw, Daniel Ziegler; Frank Kneedler, Secretary; Howard R. Carey, Inspector.

Washington Borough.—Members and Officers—C. M. Williams, John Hornbaker, D. V. Wyckoff, R. M. Petty; Harry Christine, Clerk; A. J. Bigler, Inspector.

I	ist of Sanitary	List of Sanitary Districts, Showing Population and Names and Addresses of Officers.	and Names and	ddresses of Officers.
SANITAKY DISTRICT.	COUNTY.	Popula- tion by Census OF SECRETARY.	ADDRESS TARY.	NAME AND ADDRESS OF REGISTRAR OF VITAL STATISTICS.
Cities. Asbury Park Atlantic City	Monmouth	4.148 B. H. Obert 27,838 Edward Guion, M. D		B. H. Obert. Alfred T. Glenn.
Belvidere Beverly Bordonfour	Warren Burlington.	1,784 F. F. Lefferts, M. D.		U. G. Pursell. B. F. Soby, M. D.
Bridgeton Burlington	Burlington Cumberland. Burlington	13,913 John H. Moore, M. D. 7,392 Alfred P. Silbath		H. W. Kunzi. Frank L. Hewitt. J. F. Cline.
Camden Cape May City Dover		75,935 Eugene B. Roberts. 2,257 V. M. D. Marcy, M. D.		H. C. Kramer. John W. Thompson. I H. C. Hunter
East Orange Egg Harbor City		21,506 T. N. Gray, M. D. 1,808 V. P. Hoffmann.		S. M. Long. V. P. Hoffmann.
Elizabeth Englewood Gloucester City	Union Bergen	52,130 James J. Manning 6,253 Gilliam D. Bogert 6,840 Daniel F. Lane		James J. Manning. Robert Jamieson. Taniel F. Lane
Hackensack Hoboken	Bergen Hudson	59,364 Joseph Tucker.		Wm. P. Ellery. Joseph Tucker,
Jersey City Lambertsville Millville	Hudson Hunterdon.	206,433 Henry Smellie, 4,637 James H. Renolds 10,583 L. H. Hogate		C. J. Kooney. James H. Reynolds. I. H. Hogarte.
Montclair Morristown	Essex Morris	18,962 John N. Holton. 11,267 Thomas Martin.		John O'Brien, Jr. Thomas Martin.
Newark New Brunswick Orange	Essex	246.070 D. Chandler 20,006 S. V. D. Clark, M. D.		James F. Connelly. F. J. Ward. W. B. Gano.
Passale City Paterson	Passaic	17,777 W. B. Davidson		George F. Grear. John T. Pollitt.
Ferth Amboy	Middlesex	17,699 W. E. Ramsey, M. D. 10,652 Frank Kneedler.		John F. Reilley. Frank Kneedler. H. O. Mattisch
Rahway Salem City	Union	7,935 Chas, H. Angleman 5,811 Clinton Bowen		Chas. H. Angleman. Clinton Bowen.
Trenton Woodbury	Union Mercer Gloucester	73,307 Thomas Holmes		lt. J. Scott. C. Edward Murray. J. E. Estell.
Boroughs. Allendale	Monmouth	694 J. M. Christopher. 165 Wm. H. Conover.		J. M. Christopher. Wm. H. Congyer.

List of	Sanitary Distr	icts, Sho	List of Sanitary Districts, Showing Population and Names and Addresses of Officers—Continued	ses of Officers -Continued.
SANITARY	ATMILO	Popula- tion by	NAME AND ADDRESS	NAME AND ADDRESS OF
DISTRICT.		of 1900.	OF SECRETARY.	REGISTRAR OF VITAL STATISTICS.
	Monmouth	695		W. R. Forsyth.
Alpine Angover	Bergen Sussex			G. G. Gerke. S. H. Willson
Highlands.		1.383		E. M. Shivers. W. N. Snedeker
		93	93 H W Dolan	Chas. B. Kates.
.ບ	Ocean			
	Ocean	247	Julius Foster W F Beer	
_	Monmouth	808	Charles O. Hudnut	
Bogota	Bergen	337	John J. Huyler Thomas I. Roberts	John J. Huyler. Harlan P. Ross.
Bound Brook	Somerset	2,622	W. S. Negus	Charles McNabb.
Branchville	Monmouth	282	982 Wm. K. Bradner	W. K. Bradner. H. N. Kymer
~	Atlantic	66	James R. Bissex	James R. Bissex.
Butler	Morris	1 967	Dr. Samuel K. Owen	Allen Looker.
Cape May Point	Cape May	153	Isaac E. Daluwiii	Lafayette Miller.
<del>-</del>	Bergen	2,574	14 Herman Foth.	Herman Foth.
, t	Camden	1,001	283	C. Louis McLean
Clayton	Floucester	1,951	A. G. Silver	C. F. Fisler, M. D.
Cliffside Park	Bergen	968	P. H. Nutt Cliffside	Jean Henri Raas.
Closter	Bergen	010	Geo. A. mann	Alfred Anderson.
Collingswood	Camden	1,633	633 Ross G. Pidgeon	R. G. Pidgeon.
Cresskill	Monmonth	486	86 Henry V. Westervelt	Geo. Y. Allaire.
ord	Bergen	746	746 Geo F. Moore, Oradell	H. A. Bingham.
	Bergen		William Begg.	William Begg.
Dumont	Bergen	643	J. E. Pratt, M. D.	Frank Hill.
therford	Bergen	2.640	Wilson S. Fredricks	Wm. E. Novo, Rutherford.
	Bergen	1,006	Geo. A. Carleton	Geo. A. Carleton.
Elmer	Salem	1,140	40 Hiram Van Meter	Hiram Van Meter.
rood Cliffs	Bergen	218		John G. Ropes, Fort Lee.
_	Essex		(F. B. Ivy	t. Byrne Ivy.

ᄄ	STICS.	-													
NAME AND ADDRESS OF	REGISTRAR OF VITAL STATISTICS.				Ridgewood.					;	Landing.				
ME AND	RAR OF V	gell. Bush.	Frank P. Van Note. C. H. Fennimore. Henry W. Young.	Robert H. Morrow. Wm. R. Shurts. P. J. Scanlon.	Chas. D. Costleigh. Clarence Place. Peter Van Winkle.	ا ا	Wm. Tompkins. John G. Martin.	Schuyler. Thompson.	Edward M. Clemons. P. H. Murray.	J. Carr. Hewitt.	Theo. A. K. Gessler, Landing. Harry E. Sutphen. Frank Simpson.	ddle. H. Good.	hompson.	James Farish. A. W. Woods. Jacob Van Hook. E. B. Blaisdell.	Cook. Marks. Rogers. Widnall.
ž	REGIST	H. I. Angell.	Frank F. C. H. Fe	<del></del>	=	Wm. H. Robert			<del></del>	John J. Carr. H. S. Hewitt	Theo. A. K. Ges. Harry E. Sutph. Frank Simpson.	E. E. Riddle. Robert H. Good.	R. S. T.		Chas. E. Cook. Robert Marks. Wm. A. Rogers. William Widnal
SS							C.erk							James Farish.  A. W. Woods. Jacob Van Hom. E. B. Blaisdel	
ADDRE	OF SECRETARY.				Pres		Borough							· : : :	
NAME AND ADDRESS	OF SECT	Angell	459 Wm. Leatherbury. 752 Henry W. Young.	Robert H. Morrow E. W. Moore P. J. Scanlon	William Darroch, Pres. 960 H. K. Benson	2,776 Wm. H. Harrison Robert J. Clyde	1,255 John G. Martin.	Schuyler H. Hodges	Tate	E. H. Randolph	K. Gessler	998 Edgar E. Riddle.	904 H. M. Thompson. 92 R. S. Cole. R. & Cole.	A. W. Woods. Jacob Van Hook E. B. Blaisdell	80fR. M. Elliott, Mayor 64fC. El. Goole 00fRobert M. Marks. 11f Wm. A. Rogers 36fWm. Widnall
Ż		h. I. Ang	Frank P. Wm. Leat Henry W.	Robert H. E. W. Mod P. J. Scan	William I H. K. Ber	Wm. H. F. Robert J.	william T John G. M		377 Samuel T	, H	F. A.	Edgar E.	H. M. Tho	A. W. Wo Jacob Van 3. B. Bla	erto.
Popula-	Census of 1900.	1,00%	459	2,934 E. 3,504 P.	1,960	2,776	1,255	2,096	1,377	1,749 三. 569 臣.	980	998	804 102 103 103 103 103 103 103 103 103 103 103	1,240	80 R. N 3,754 C. E E,500 Rob 1,511 Wm.
	COUNTY.	Bergen	Monmouth	Bergen Hunterdon	Jnion Assex	Samden	Bergen	Bergen	Hunterdon.	Mercer	Sussex Mercer	Hunterdon	Sergen	Atlantic Bergen Bergen	Atlantic Morris Monmouth Monmouth
ARY	ICT.	1::					<u> </u>								31-1-1-1
SANITARY	DISTRICT.	bo .	Farmingdale Fieldsboro Florham Park	Fort Lee Frenchtown Garfield	Garwood Glen Ridge Glen Rock	Haddonfield Haddon Heights	Hasbrouck Heights.	Hawthorne	High Bridge	Hightstown Holly Beach	Hoptacong Hopewell Island Heights	Junction Lavalette	Leonia Linden	Little Ferry Lodi Long Branch Com	Longport Madison Manasquan Matawan Maywood

Officers-Continued.	
Addresses of	
1 Names and	
Population and	•
, Showing I	)
ry Districts	•
List of Sanita	

TO 1817	Dailian y Dist	ires, our	List of Daimary Districts, Showing I optimized and Addresses of Officers Continued.	ses of Orivers—Continued.
SANITARY		Popula- tion by	NAME AND ADDRESS	NAME AND ADDRESS OF
DISTRICT.	COOM I.	Census of 1900.	OF SECRETARY.	REGISTRAR OF VITAL STATISTICS
Boroughs—Con.	Camden	1,698	Wm. B. Stewart.	Wm. B. Stewart.
Metuchen	Middlesex Bergen	1,786	1,786 C. M. Tausig. 1,348 Jacob Leenas, Wortendyke	A. C. Ayres. Thomas Holt.
Millstone	Somerset	200	200 Wm. H. Polhemus	Erias S. Hall. Robert A. Harkins.
Montvale	Bergen	416	416 Paul Pratt.	Paul Pratt.
Mountain Side			367 James O'Conners	George W. Smith.
Mount Tabor National Park		: ::	James H. Cox, Supt.	William P. Abdill.
Neptune City	Monmouth	-i 	009 Whitfield Smith	Whitfield Smith, Avon.
ovidence	Jnion	265	565 William Woodruff	Wm. Woodruff.
North Caldwell	Assex Passaic	23.	snerman Faddock. Caldwell	Fred. L. Baldwin, Caldwell. C. C. Ballentine.
North Plainfield		5,009	5,009 Rev. W. E. Honeyman	Rev. W. E. Honeyman.
North Spring Lake		:	Fred C. Clements	F. M. Hunt, Spring Lake Beach. Henry M. Whitfield.
Oakland	Bergen	<u>:</u>	1.307/Chas B Romaine	W. R. Romaine. Dr. Chas, B. Rider.
Ocean Grove Ass'n.		; ; ;	H. B. Alday, M. D.	;
Old Tappan Palisades Park	3ergen	9 9	R. B. Haring	IR. B. Haring. Tappan N. Y. martin Brunings.
Park Ridge			870 J. H. Starklj. H. Stark.	J. H. Stark.
Pemberton		:	71 John H. Antrim	John H. Antrim.
Pennington Pennserrove	Mercer		735 Toseph C. Bunn. 1826 Henry M Flangein M D	Joseph C. Bunn. E. M. Flanagan, M. D.
Pleasantville			Wilbur Reed	Wilbur Reed.
Foint Pleasant	Ocean	<u>:</u>	746 W E Pearce. Abraham Lower, Point Pleasant	Abraham Lower, Point Pleasant
Pompton Lakes	Passaic	847	847 Horace L. Wells	H. L. Wells.
Princeton Park	Alercer Passaic	3,333	Thornton Conover	Thornton Conover. Jacob Doele.
Raritan			Wm. Killiger	William Killiger,
Riverside			561] Wm. W. Herrick, River Edge	وج
	Burlington.		(Alex. Marcy, Jr., M. D	Mrs. A Parliman
Rocky Hill			t. Logan	A. C. Skirm.

List of	Sanitary Distr	Popula-	List of Sanitary Districts, Showing Population and Names and Addresses of Officers—Continued.    Population by   NAME AND ADDRESS   NAME AND ADDRE	nued.
DISTRICT.	COUNTY.	Census of 1900.	REG	TAL STATISTICS.
Boroughs—Con. Roselle Fark.		1,652	.652 Wm. J. D. Chandler	
Rutherford Saddle River		4,411	411 Geo. W. Lawton. Geo. W. Lawton. 415 Isaac A. Hopper, Fair Lawn. T. Velson Woodruff.	
Sea Isle City	Sape May.	340		
Secaucus Somers Point.		1,626 Ch		
South Amboy	Middlesex	6,349	3,349 F. E. De Graw	
South Bound Brook.	Somerset	888	883 14 James Ritchie Mayor	
	Middlesex	2,792	Jesse Selover.	
Stanhope			Van Arsdale	
	Hunterdon	1.306	John S. Wilson	
Swedesboro	dloucester .	1 746	n. H. Rieger	
Totowa	Passaic	562	ur De Mott	erson, R.F.D. No. 1.
Upper Saddle River		326	Wallace N. De Baun, Allendale	
Vailsburg	Essex	2,778		
Vineland	Jumberland.	4,370		4.00
Washington	Warren	3,580	580 Harry Christine	ton Hill.
Wenonah West Caldwell	Gloucester .	864		
West Cape May	Cape May	969	Theo. W. Reeves,	Eldredge.
Westwood	Morris	2,069	Nicholas Cleveland James Williams	
Wildwood	Cape May	150	•	
Woodcliffe	Bergen	329	G. J. Wo	
Wood Lynne	Bergen	582	582 F. W. Lehmann. Wagner. Wm. H. White.	•
Woodstown	Salem	1,371		•

List of \$	Sanitary Distr	icts, Sho	List of Sanitary Districts, Showing Population and Names and Addresses of Officers—Continued	ses of Officers—Continued.
SANITARY DISTRICT.	COUNTY.	Popula- tion by Census of 1900.	NAME AND ADDRESS OF SECRETARY.	NAME AND ADDRESS OF REGISTRAR OF VITAL STATISTICS
		<u> </u>	530 Dr. Samuel Johnson. 9,688 Wm. L. Johnson. 3,991 N. A. Myers. 2,934 Theo. Sickles.	Samuel Johnson. Wm. L. Johnson. G. E. Fisher. Rulif V. Lawrence.
erg stown nton n		24,80 24,80 24,44,00 24,44,00 24,100	3.826 Frank P. Titus. 2.474 Frank P. Titus. 2.474 Sall Louis O'Donnell. 0.596 John J. Scannell. 0.526 Edwin, Bernell. Mahlop, Stockman.	Frank P. Titus. J. Louis O'Donnell. Mahlon Stockman.
	Hudson Monmouth Monmouth Somerset	1,4,5,4,1 1,6,4,1 1,8,	3.413 Rutus C. Walling 5.428 James H. Sickles 5.484 Wm. R. Sutphen 15.187 Wm. Menger. M. D. Inspector	James H. Slckles. Wm. R. Sutphen.
West Holowen Hudson West Hoboken Hudson West New York Hudson West Orange Bssex		23,094 5,267 6,889	23,038 C. W. Harden. 23,034 A. J. Stanton. 5,267 John H. Everly. 6,889 Ditlow Schroll, Jr. Benj. L. Williams.	C. W. Harden. Benj. L. Williams.
Villages.  Hidgefield ParkBergen Ridgewood South OrangeEssex	Bergen	<u> </u>	2.685 J. Blauvelt Hopper Thomas Terhune, Hohokus. W. W. W. Reberton, M. D. 4,608 Allerton D. Hitch.	Thomas Terhune, Hohokus. W. W. Heberton, M. D.
	Passalc Hunterdon .		Benl. A. Hendershot, Allamuchy	Richard Berry, Clifton. Robert Roseberry, Bloomsbury. Richard E. Martin, Fackettstown.
			.525 Wm. E. Simpkins 410 Chas. W Scobey. 850 W. D. Cramer.	Wm. E. Simpkins, Aldine. William Illiff, Lafayette. Chas. V. Scobey. Scobeyville. W. D. Cramer, New Gretna. W. T. Vandenbedt. Clafatone.
Belleville Bssex Berkley Ocean	Somerset Essex		907 W. D. Vanderbeek. 694	Wm. Connolly, Belleville,
Bethlehem Sunterdon Beverly Beverly Surlington.	Somerset Hunterdon Burlington	1,634	1968 S. Baldwin. S. Bardwin, Liberty Corner, 534 (Chas. R. Burwell, Valley. Chas. R. Burwell, Valley. 1954 (Inseph B. Carter. Delanco.	S. S. Baldwin, Liberty Corner. Chas. R. Burwell, Valley. Joseph B. Carter, Delanco.
Blairstown	Warren	1,576	576 Wm. S. Perry, Delaware, 709 Geo. W. Blanchard, Boonton, Joseph Steventon, Boonton	Wm. S. Perry, Delaware, Joseph Steventon, Boonton.

List of §	anitary Distr	icts, Show	List of Sanitary Districts, Showing Population and Names and Addresses of Officers—Continued.	ses of Officers—Continued.
SANITARY	VTVIOO	Popula- tion by	NAME AND ADDRESS	NAME AND ADDRESS OF
DISTRICT.		of 1900.	OF SECRETARY.	REGISTRAR OF VITAL STATISTICS
s—Con.	3urlington	488H	488 Hugh Lejambre, Bordentown	Geo. Holloway, Bordentown.
	durlington .	1,061	,012  Seter Q. Brokaw	
Prick	Jeean	1,601[3	2,130  1,601 7. T. Ross.	
	Sussex	1,235	1,235	
	Essex	1,619 2,192 Jo	1,619 2,192 John H. Jackson	
	Morris	6201.	620	
	Morris	1,4091		
Chesterfield	Burlington Burlington	1,143	1,143  Thas. B. Holloway	
	Union	374F	374 F. P. Bullman	
Clementon	Camden	<u> </u>	Geo. W. Evans, Lindenwold	
	Hunterdon	2,296 3	sergen B. Berkaw	
Cranbury	Middlesex	1,428 A	1,428 A. M. Davison	
Cranford	Union Cumberland.	2,854 . 3,066 C	has C. Phillips, M. D.	Edward S. Crane, Cranford. B. B. Parvin, Deerfield St.
	Jamden	1,679 7	1,679 W. B. Jennings, M. D., Haddonfield	
Delran	Junterdon Burlington	1,968 0 008	890 Daniel A. Kendall	J. M. Hoppock, Sergeantsville. Daniel A. Kendall, Riverton.
	ape May	2,778		•
Dover	Jeean	2,618	2,618 J. S. Grant, Toms River	
:	Jumberland.	1,833	833 563 Junean D Chemmer	Sheppard Campbell, Newport.
	Burlington	286	augene F. Claninel	
	Hunterdon	1,327 圧	.327 Edgar Higgins	
Greenwich	Gloucester	1,322	1,322 f. C. Dauson	J. C. Dauson, Mickleton.
	Monmouth	3,021		ġΑ̈́
Egg Harbor	Atlantic Gloucester	1,868 997 8	868 A. R. Vickers. 997 Samuel I. Seran.	A. R. Vickers, Bakersville.  Samuel L. Seran. Aura.
Elsinboro	Salem	-i 	445) 1,429 B. K. Brick, M. D., Marlton	

List of Sanitary Districts, Showing Population and Names and Addresses of Officers-Continued.	Popula-   Popula-   Lion by   NAME AND ADDRESS   NAME AND ADDRESS OF COUNTY.   Census   OF SECRETARY.   REGISTRAR OF VITAL STATISTICS.   1900.	Marcer   1333   W. H. Cadwallader   Wm. H. Cadwallader Trenton, No. 1. Junberland   1201   Chas. H. French   Westfield   Chas. H. French   Westfield   Chas. H. French   Westfield   Chas. H. French   Chas. H.
List o	SANITARY DISTRICT.	Townships—Con. Ewing Fairfield Fanwood Frankood Franklin Franklin Franklin Franklin Franklin Franklin Franklin Franklin Fredon Freedon Freedon Galloway Galloway Galloway Galloway Galloway Greenwich Greenwich Haddon Hampton Hampton Hampton Hardwick Holbewell

resses of Officers—Continued.	NAME AND ADDRESS OF REGISTRAR OF VITAL STATISTICS.	W. K. Teel. Vienna. Walter S. Hendrickson, Jackson's Mill. Chas. Chamberlain, Woodport. Samuel S. Snyder. Locktown. Wm. B. Moore, Columbia. Wm. B. Moore, Columbia. J. C. Strader. M. D. Lafayette. J. Shobins Lakewood. Howard M. Dolbey, Vineland. Frank Pierson, Lawrenceville. A. S. Banghart, Glen Garville. A. S. Banghart, Glen Garville. A. S. Banghart, Liden Gardner. Ww. W. Wilson, Little Falls. Luavid Frynn, Livingsron. W. W. Wilson, Little Falls. Luavid Frynn, Livingsron. Julius Pries. Wood Ridge. S. B. Piett, Bridgeport. A. W. Brown, Manahawkin. E. Frank Cline, Shimers. John G. Mitchell, Pennert. H. D. Culin, Hainesport. H. D. Culin, Hainesport. John G. Mitchell, Pennert. John G. Mitchell, Pennert. Joseph H. Armstrong, Columbus. Joseph H. Armstrong, Columbus. Joseph H. Armstrong, Columbus. Joseph Lodge, Pirman Grove. W. C. McElwaine, Englishtown. Chris Winters Cliffwood. Henry Reeves, Jr. Leesburg. Wm. M. Potts, Medford. John B. Dolan, Mendham. Stillwell H. Townsend, Cape May C. H. Omar Sickles, Navesink.
List of Sanitary Districts, Showing Population and Names and Addresses of Officers-Continued	NAME AND ADDRESS S OF SECRETARY.	1595   F. M. Haggerty, M. D., Vienna   1595   1534   Chas. Chamberlain   1.341   Chas. Chamberlain   1.341   Chas. Chamberlain   1.344   Charlest E. Le Compte. Lakewood   1.555   Frank Pierson   Cedarville   1.555   Cedarville
istricts, S	Population by Census of 1900.	
Sanitary L	COUNTY	—Con. Warren Ocean Ocean Warris Morris Morris Morris Morris Morris Cocan Cocan Cumberland Mercer Hunterdon Union Passalc Essex Bergen Cocan Warren Warren Avarren Avarren Avarren Burlington Middlesex Monmouth Cocan Burlington Marren Burlington Marren Burlington Marren Cape May Salem Burlington Morris Burlington Morris Cocan Morris Cape Burlington Morris Cocan Morris Cape Burlington Morris Cocan Morris
List of	SANITARY DISTRICT.	Townships—Con.  Independence Ocean Jefferson Kingwood Kingwood Kingwood Kingwood Hunterdon Lacey Lakewood Cocan Ladndis Lawrence Cocan Lawrence Mercer Lebanon Little Falls Little Falls Logan Logan Logan Logan Lower Bach Lower Alloways Cr's Salem Lower Penns Neck Manchester M

 
 Geo. J. Ely
 George J. Ely
 Cranbury

 Clayton B. Tice
 Clayton B. Tice
 Filiamstown

 R. R. Vandenbergh
 Rob't B. Vandenbergh, Prospect Plains Geo. McCarty
 For McCarty
 For Jervis. N. Y. No. 1

 Wm. I. Robinson, Belle Mead
 C. B. Allhouse, Harlingen
 N. N. No. 1

 J. P. Jamieson, Morristown
 A. M. Armstrong, Morristown
 A. M. Armstrong, Morristown

 Benj. M. Haines
 Moorestown

 Salmon
 Salmon

 John T. Iriving, Elwood
 Wm. W. Phillips, Elwood

 Wm. R. O'Brien, Asbury Park.
 Q. REGISTRAR OF VITAL STATISTICS. David F. Davis, Woodstown. Geo. S. Bunting, New Brunswick, No. Geo. Schalick, Centreton. NAME AND ADDRESS OF | I. D. Cozzans, New Brunswick. | 24 P. Voorbies | Plainfield. | A. S. Brines. Long Branch. | Howard A. Brines. Long Branch. | Levi C. Justice. | Pedricktown. | Frank Russell. | Prank Russell. | A. Wilcox, Ridgefield Park. | A. Wilcox, Ridgefield Park. | Michael Mountain. | A. Wilcox, Ridgefield Park. | A. Wilcox, Ridox, Ridgefield Park. | A. Wilcox, Ridgefield Park. | A. Wilcox, Chas. Romine, Wrightstown. W. C. Johnson, New Providence. Geo. B. Case, Newton. Martin H. Girvin, Mt. Holly. Jacob O. Boyer, Carpenters ville. Harry E. Horner, Merchantville. Wm. E. Beam, Pompton Plains. David Beam Geo. F. Compton, New Egypt.
David Beam, Midvale.
Chas. P. Gullok, Princeton. ,493 Barclay Seeds. Barclay Seeds. Pemberton. List of Sanitary Districts, Showing Population and Names and Addresses of Officers—Continued F. Blackburn, Palmyra, I. A. Harvey, Stirling. 1,509 (Geo. J. Ely T.C. 2,402 (Lay Van B. Tree B. 99 R. P. Wandenbergh 1,243 Wm. I. Robinson, Belle Mead C. 3,571 J. P. Jamieson March 1,508 2,571 J. Jamieson, Morristown. 2,544 Benj. M. Haines. 1,221 S. W. Salmon. 1880 John T. Iriving, Elwood. 2,628 Geo. S. Bunting 1,827| 4,376 Geo. B. Case. 9,213|Emil J. Foerch, New Durham NAME AND ADDRESS OF SECRETARY. 2,404 David Beam. Popula-tion by Census 1900. Newton Burington Burington North Bergen Hudson North Brunswick Middlesex North Plainfield Somerset Sussex .... Morris ..... Monmouth .. Burlington. Union Sussex Palisade ......Bergen .... Palmyra .....Burlington. Middlesex ... Ocean .... Morris .... Jalem .... Morris .... Pemberton ......Burlington. Camden ... Gloucester COUNTY. Overpeck .....Bergen Pahaquarry ..... | Warren Warren Morris ......[Mercer Salem Mount Laurel Monroe ..... Montague ..... Montvile ..... Oldmans ..... Oxford ..... equannock ..... illstone ..... Monroe ..... Ocean ..... Ocean ..... Townships-Con. SANITARY DISTRICT. Pohatcong Plumstead Pensauken Princeton

List of Sanitary Districts, Showing Population and Names and Addresses of Officers—Continued.	ADDRESS OF REGISTRAR OF VITAL STATISTICS	h T. Harris, Quinton  Dailymple  Dailymple  W. S. Buchanan, Flemington  W. S. Smith, Keyport.  Jacob C. Voorhees, White House Station.  Thomas F. Mallon, Coytesville.  Thomas F. Mallon, Coytesville.  Thos. K. Wilkinson, Ledgewood. Isaac A. Hopper, Fair Lawn. Fixin Esmith, Bevans.  B. F. Samsel, Bevans.  B. F. Samsel, Bevans.  Hughes, M. D., Layton  Elyin E. Smith, Bevans.  B. F. Samsel, Sayreville.  Harrison, Red Bank.  Levis S. Brown, Vincentown.  Lippincott.  C. Baker.  W. Maseker.  D. C. Lippincott.  Thos. K. Mashaw.  John B. Teitro, Wrightstown.  Lewis S. Brown, Vincentown.  W. Maseker.  John B. Tilton, Wrightstown.  John B. Tourthey, Manahawkin.  John B. Tourthey, Manahawkin.  John B. Courthey, Manahawkin.  John B. Courthey, Manahawkin.  John B. Courthey, Manahawkin.  John B. Courthey, Kingsland.  Little  H. Wisham  Thos. E. Buckley, Kingsland.  Little  John Little, Jutland.  W. A. Jones, Barnegat.  D. Hobart Sayre.  Little  John Little, Jutland.  W. M. Hewitt, Penns Grove.  W. Hewitt, Penns Grove.  R. A. Robinson, Monroeville.  T. Young, Beesley's Point.  R. P. Shaw, Vernon.  Simonson, C. L. Shimonson, Vernon.
wing Population and	NAME AND ADDRESS OF SECRETARY.	Josiah T. D. Hand D. H
icts, Sho	Popula- tion by Census of 1900.	
Sanitary Distr	COUNTY.	Salem Morris Monris Middlesex Monmouth Middlesex Morris Bergen Formale Morris Middlesex Middlesex Middlesex Middlesex Middlesex Gesen Formale Bergen Bergen Bergen Gesen Thion Ocean Thio
List of	SANITARY DISTRICT.	Townships—Con. Quinton Quinton Randolph Raritan Radington Radington Ridgefield Ridgefield Ridgefield Ridgefield Ridgefield Riverside Roxbury Saddle River Sandyston Sayreville Shrewsbury Sandel River Sandyston Sayreville Shrewsbury South Brunswick South Harrison South Harrison South Harrison South Harrison South Grange Sparta Springfield Spr

esses of Officers—Continued.	NAME AND ADDRESS OF REGISTRAR OF VITAL STATISTICS.	S.212   Geo. E. Rogers, Belmar, R. F. D. No. 2, 217   J. W. Bunnell, Walpack Centre. 2, 178   Edmund E. Sage, Gillette. 3, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
List of Sanitary Districts, Showing Population and Names and Addresses of Officers—Continued.	NAME AND ADDRESS OF SECRETARY.	S.212   Geo. E. Rogers, Belmar, R. F.     2.17
icts, Sho	Popula- tion by Census of 1900.	
Sanitary Distr	COUNTY.	Monmouth. Sussex Sucrester On Morris On Morris On Warren Camden C
List of	SANITARY DISTRICT.	Townships—Con. Wall Wall Wall Wall Wantage Warren Sussex Susshington Surlington Washington Warren Warren Washington Warren West Amwell Hunterdon West Amwell Hunterdon West Amwell Hunterdon West Windsor West Windsor Wercer Willingboro Samden Willingboro Samden Woodbridge Murlington Samden Woodbridge Burlington Samden Woodbridge Burlington Samden Woodbridge Burlington Samden Woodbridge Burlington Samden Samden

# List of Coroners in New Jersey.

Atlantic County—Albert C. Stephany, Richard Benson, Wm. B. Parcello. Bergen County—Willis W. Curry, Charles S. Robertson, James A. Morgan. Burlington County—Thomas S. Wells, William Grobler, Frank Ridgway. Camden County—Paul N. Litchfield, Ahab H. Lippincott, Philip W. Beale. Cape May County—George Sayre, Jr., John D. Craig, Chas. H. Clouting. Cumberland County—Ferdinand Jones, Samuel M. Hall, Frank B. Potter. Essex County—C. William Heilmann, Richard M. Pearce, Albert J. Holle. Gloucester County—Charles S. Heritage, Wesley Grant Simmons, Howard A. Wilson.

Hudson County—George J. Brackner, Peter J. Gormon, Edward C. Zeiger. Hunterdon County—Edgar Allen, Isaac S. Cramer, Frank W. Larison. Mercer County—William W. Rogers, William M. Disbrow, James N. Rue. Middlesex County—William H. Quackenboss, John V. Hubbard, Edward C. Haines.

Monmouth County—Frank J. Queeny, Asbury F. Bedle, Russel G. Andrew, Jr.

Morris County—Henry V. Day, Wilferd A. Surnburger, William E. Collins. Ocean County—John Hagaman, J. Clarence Cranmer, J. Fred. Conover.

Passaic County—George McGlory, Nixon Campbell, Jr., J. Mortimer Blauvelt.

Salem County—Emerson P. McGeorge, Charles W. Denn, Samuel J. Shute. Somerset County—Claudius R. P. Fisher, Mahlon C. Smalley, W. Howard Toms.

Sussex County—Charles E. Dowling, Jeptha C. Clark, Edward S. Dalrymple.

Union County—Horace R. Livengood, Russell A. Shirrefs, Alvin R. Eaton. Warren County—Michael Kenney, B. Frank Fox, Samuel F. Amerman.

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# List of County Physicians in New Jersey.

Atlantic County—Emanuel C. Shauer, M. D. Cumberland County—E. L. Diament, M. D. Essex County—William H. McKenzie, M. D. Hudson County—Charles B. Converse, M. D. Mercer County—R. R. Rogers, Jr., M. D. Middlesex County—Edgar Carroll, M. D. Passaic County—Andrew F. McBride, M. D. Salem County—Henry Jackson, M. D. Somerset County—S. O. B. Taylor, M. D. Union County—F. W. Westcott, M. D. Warren County—L. B. Hoagland, M. D.

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# Report on Inspection of Streams.

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By A. Clark Hunt, M. D., State Medical Inspector.

The sanitary inspection of streams, from which water is supplied for potable purposes to various municipalities in the State, has been continued during the past year. The result of the work shows that a great deal has been accomplished in the removal of direct contaminations, and that there has also been a change in public sentiment which has simplified the enforcement of the law. It has not been necessary during the year to institute legal procedings against any of the individuals upon whose premises evidences of contamination were discovered, and in many instances a verbal notice was sufficient to secure discontinuance of any further contamination. In the report which follows will be found the result of sanitary inspections, and the action which has been taken to secure the purity of public water supplies.

#### Hackensack River.

During the past year the Hackensack Water Company appointed a sanitary engineer to investigate all sources of contamination, and whenever a contamination was discovered the facts in the case were immediately reported to the office of the State Board of Health. An inspector of the State Board then made a sanitary survey of the premises, and the owner was at once notified to discontinue the contamination. Two hundred and eightyfive cases of direct or indirect pollution of the waters of the stream have been discovered, and of this number 240 have been abated. Twenty-six of the remaining forty-five are merely under observation, as there is not sufficient evidence in these cases of direct pollution. The results of the methods which have been adopted in the sanitary inspection of the Hackensack River indicate the necessity for the continuous employment, by public water companies, of an inspector who shall make weekly inspections of the water shed. The following is a list of the cases which have been investigated, together with the result of the action which was taken in each instance.

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# 164 REPORT OF THE BOARD OF HEALTH.

No. 103. Inspection of the premises on the east side of Linden Avenue, opposite Lake St. Oradell, showed that a house drain discharged sewage directly into a tributary of the Hackensack River. A notice to discontinue the pollution of the stream was served upon the owner on January 23, 1903. Reinspection of the premises February 9 showed that the drain had been disconnected, and waste liquids from the house were thrown on the ground. Upon reinspection of these premises May 5, 1904, it was found that a dry earth closet had been placed under the privy from which in times past foul liquids had been discharged into the stream, and that greater care was being exercised in the disposal of sewage.

No. 110. Inspection of premises located on Great Bear creek, north of Woodcliff, showed that a sink drain discharged into a stream which is one of the tributaries of the Hackensack River. Frequent inspections had been made of these premises during the year 1904, and the owner had been notified to discontinue the contamination. No atention having been paid to the notice, the facts in the case have been presented to the Attorney General, and an application will be made to the Court of Chancery for an injunction to restrain the owner from continuing the contamination.

No. 153. Upon examination of premises located at Norwood it was found that a sink drain discharged sewage directly into a ditch which is one of the tributaries of the Hackensack River, and a manure pile is so located that liquid manure finds its way into the same stream. Notice to discontinue the contamination was served upon the owner September 15, 1903. Reinspection of these premises made May 6, 1904, showed that the sources of contamination had been removed.

No. 162. Upon inspection of premises located one mile east of Westwood it was found that sewage from bath-tubs, closet and kitchen sink was discharged directly into one of the tributaries of the Hackensack River. Notice to discontinue the contamination was served upon the owner September 25, 1003. Reinspection of the premises April 25, 1904, showed that the contamination had been discontinued.

No. 164. Upon examination of premises located at Montvale it was found that house drainage was discharged by a sink drain into a brook which is one of the tributaries of the Hackensack River. Notice to discontinue the contamination was served upon the owner September 25, 1903. Upon reinspection of these premises May 11, 1904, it was found that a cesspool had been constructed.

No. 165. Upon inspection of premises located at Montvale it was found that a drain from a store discharges into a brook which is one of the tributaries of the Hackensack River. Notice to discontinue the contamination was served upon the owner September 25, 1903. The premises were reinspected May 11, 1904, and it was found that a cesspool had been constructed.

No. 168. Inspection of premises located on Railroad Avenue, Westwood, showed that sewage was discharged from a sink drain upon a steep bank within 150 feet of a tribuary of the Hackensack River, and that the waters of the river were contaminated thereby. Notice to discontinue the contamination was served upon the owner May 17, 1904. Reinspection of the premises showed that the notice had been complied with.

No. 170. Upon inspection of premises located on Railroad Avenue, Oradell, it was found that sewage was discharged into a road ditch within fifty feet of a culvert, and that a tributary of the Hackensack River was contaminated by the discharge. Notice to discontinue the contamination was served upon the owner May 17, 1904, and a reinspection of the premises showed that the notice had been complied with.

No. 171. Upon inspection of premises located on Maple Avenue, Oradell, it was found that stable manure was placed within eight feet of a ditch which discharged into one of the tributarles of the Hackensack River. It was also noted that a house drain discharged sewage into the ditch. Notice to discontinue the contaminations was served upon the owner May 4, 1904, and a reinspection showed that the notice had been complied with.

No. 178. Upon inspection of premises located in Montvale it was found that a house drain discharged into a street gutter within forty feet of one of the tributaries of the Hackensack River, and that a pile of manure was located within twenty feet of the stream. Notice to discontinue the contamination was served upon the owner May 17, 1904, and reinspection showed that the notice had been complied with.

No. 181. Upon inspection of premises on the north side of Central Avenue, Norwood, it was found that a privy was located within five feet of a ditch, the waters of which are discharged into a tributary of the Hackensack River. Notice to discontinue the contamination was served upon the owner May 17, 1904, and a reinspection August 19, 1904, showed that the notice had been complied with.

No. 183. Upon inspection of premises on the east side of Maple Avenue, Oradell, it was found that house sewage was dis-

charged upon the surface of the ground within sixty feet of a ditch which is connected with one of the tributaries of the Hackensack River. Notice to discontinue the contamination was served upon the owner May 17, 1904, and reinspection of the

premises showed that the notice had been complied with.

No. 184. Inspection of premises located on the east side of Maple Avenue, south of Center Avenue, Oradell, showed that house sewage was discharged upon the surface of the ground within fifty feet of the railroad gutter, and that the waters of one of the tributaries of the Hackensack River were contaminated thereby. Notice was served upon the owner May 17, 1904, and upon reinspection of the premises it was found that the notice had been complied with.

No. 185. Inspection of premises at Closter showed that a sink drain discharged directly into a ditch on the east side of the railroad property, and that the waters of one of the tributaries of the Hackensack River were contaminated thereby. Notice to discontinue the contamination was served upon the owner on May 17, 1904, and a reinspection of the premises showed that a cesspool had been constructed, and that the notice had been fully com-

plied with.

No. 169. Inspection of premises on the east side of Railroad Avenue, Oradell, showed that wash water was thrown upon a steep bank within seventy feet of a brook which is one of the tributaries of the Hackensack River. A privy which is north of the house on the premises was recently washed away by a storm, but a wooden vault had been constructed. Notice to discontinue the contamination was served upon the owner May 17, 1904, and upon reinspection of the premises on July 8, 1904, it was found that a tight box had been constructed, and that the notice had been complied with.

No. 180. Inspection of premises located on Highwood Avenue, Tenafly, showed that drainage from the sinks in several houses was discharged into the street gutter, and thence by a box culvert into a stream which is one of the tributaries of the Hackensack River. Notice to discontinue the contamination was served upon the owner May 17, 1904, and upon reinspection August 19, 1904, it was found that a cesspool had been constructed, and that the contamination at this point had ceased.

No. 198. Inspection of premises located on the Flats Road, Harrington Township, showed that a pile of stable manure was located within fifty feet of a tributary of the Hackensack River, and that liquid manure was discharged directly into said tributary. A notice to abate the nuisance was served upon the owner August 23, 1904. No action was taken by the owner, and the case was referred to the office of the Attorney General for such

legal action as the law prescribes.

No. 173. Upon inspection of premises located on the Hook Road, near Westwood, it was found that barn yard manure was placed within thirty feet of the Pascack River, which is one of the tributaries of the Hackensack River. Notice to discontinue the contamination was served upon the owner May 17, 1904. Reinspections of the premises have shown that no action has been taken by the owner to discontinue the contamination, and the facts in the case have been referred to the Attorney General for such action as the law prescribes.

No. 177. Upon inspection of premises located on the Kinder-kamack Road, Etna, it was found that a large quantity of stable manure was placed within fifty feet of a ditch which discharges into one of the tributaries of the Hackensack River. Notice to discontinue the contamination was sent to the owner May 17, 1904, and reinspection of the premises showed that an effort had

been made to discontinue the contamination.

No. 205. Upon inspection of premises located at Park Ridge, it was found that a pig pen was located within twelve feet of a stream which is one of the tributaries of the Hackensack River, and that foul liquids from the pen were discharged into the stream. Notice to discontinue the contamination was served upon the owner November 1, 1904, and a communication was received from the owner in which it was stated that the use of the pig pen would be abandoned.

No. 206. Upon inspection of premises located at Park Ridge it was found that a privy vault was filled to overflowing, and that in periods of rain the foul liquids from the vault would be discharged upon a steep embankment directly into a tributary of the Hackensack River. A notice to discontinue the contamination was served upon the owner November 1, 1904, and a communication was received in which it was stated that the privy vault had been emptied, and that the use of the privy in its present location had been abandoned.

In addition to the cases above referred to a reinspection has been made of all the cases of pollution which were investigated during the year 1903, and on most of the premises where contaminations had been noted it was found that the owners were anxious to comply with all legal requirements.

## Rahway River.

In October of 1904 the joint sewer system, which has been in the course of construction for over two years, was completed. This sewer system is available for the discharge of sewage from South Orange, West Orange, Vailsburgh, Millburn and Spring-No action was taken during the year to secure the discontinuance of contaminations of the Rahway River in that portion of the water shed that would be relieved by the construction of the sewer. In those localities which are not reached by the sewer the inspections have been continued, and a number of contaminations were discovered. When the sewer was completed notices were sent to the owners of mill property in Millburn to immediately connect with the sewer, and these notices have been complied with. By arrangement with the health officer of South Orange, owners of property in South Orange, from which directly or indirectly sewage was discharged into the Rahway River, were notified to discontinue such contaminations. As a result of this action twenty-seven premises which either directly or indirectly discharge sewage into the Rahway River have been connected with the sewer system. The dense population of the area from which the water supply of the City of Rahway is obtained is such as to render it almost impossible to maintain the purity of the waters of the stream. It is absolutely essential that the waters of this stream should be purified by filtration before distribution to consumers. The knowledge of the conditions existing throughout this water shed leads to the belief that some other source of supply should be secured for the city of Rahway.

Following is a list of cases in which it was necessary for the State Board of Health to serve notices upon owners to discontinue contamination of the Rahway River.

No. 186. Upon inspection of premises located on North Avenue and Cedar Street, Garwood, it was found that house sewage was discharged into the street gutter on Cedar Street, and thence found its way into one of the tributaries of the Rahway River. Notice to discontinue the contamination was served upon the owner May 24, 1904. Reinspection of the premises showed that house sewage was still discharged into the street gutter, but upon examination of the outlet of a blind drain it was found that there was no direct evidence of pollution. It is the intention of the local authorities to extend the sewer system from Cranford, and if this plan is carried out there will be no necessity of discharging sewage into the street gutters.

No. 187. Upon inspection of premises located on the north side of North Avenue, Garwood, it was found that the overflow of sewage from a cesspool was discharged directly into the street gutter, and in times of storm was discharged into a tributary of the Rahway River. Notice to discontinue the contamination was served upon the owner May 24, 1904, and a reinspection of the premises showed that the notice had been complied with.

No. 188. Upon inspection of premises located on North Avenue, Garwood, it was found that sewage was discharged into the street gutter, and that the waters of the Rahway River were contaminated thereby. Notice to discontinue the contamination was served upon the owner May 24, 1904. Reinspection showed that no action had been taken to prevent the further contamination of the stream, but that the owners of property on North Avenue had under advisement the extension of the Cranford sewer to a point

within the borough limits of Garwood.

Nos. 189 and 190. Inspections of premises located on the west side of Center Street, and of other premises located on the east side of Center Street, in Garwood, showed that sewage was discharged directly into a tributary of the Rahway River. Notice to discontinue the contamination was served upon the owner May 24, 1904. Reinspection showed that the direct discharge of sewage into the stream had been discontinued, but at the present time sewage is discharged near a ditch, the waters of which enter a tributary of the Rahway River. Constant reinspection of this section will be necessary if the contamination of the river is to be avoided.

No. 192. Upon inspection of the premises located in Maplewood it was found that house slops and other domestic refuse of a contaminating character were thrown into the waters of Crooked Brook, which is one of the tributaries of the Rahway River, and that the waters of the stream are contaminated there-Notice to discontinue the contamination was served upon the owner July 1, 1904. Reinspection of the premises showed that the notice had been complied with.

No. 193. Inspection of premises located near Baker Street. Maplewood, showed that garbage and other waste and decomposing substances were thrown upon the banks of the Rahway River. and that the waters of the stream were contaminated thereby. Notice to discontinue the contamination was served upon the owner July 1, 1904. Upon reinspection of the premises it was found that the notice had been complied with.

No. 194. Upon inspection of premises located on Baker Street,

Maplewood, it was found that the carcass of a dead horse had been buried on the banks of the Rahway River, and within thirty feet of the stream. Notice to remove the carcass was served upon the owner July 5, 1904, and upon reinspection it was found that the owner had complied with the notice.

No. 195. Upon inspection of premises located in Maplewood it was found that waste liquids from a sink were discharged directly upon the banks of a tributary of the Rahway River. Notice to discontinue the contamination was served upon the owner July 5, 1904. Upon reinspection it was found that the contamination had ceased.

No. 199. Upon inspection of premises located on the Northfield Road, West Orange, it was found that waste liquids from a hotel were discharged directly into a street gutter within 200 feet of one of the tributaries of the Rahway River, and a privy vault was located upon a side hill within eighty feet of the street gutter. At the time of inspection, there was a case of typhoid fever upon the premises. Notice to discontinue the contamination was served upon the owner September 9, 1904. Reinspection showed that the owner had complied with the requirements of the notice.

#### Rancocas Creek.

From this stream the water supply for the town of Mount Holly, Burlington County, is obtained. The stream has its course for the most part through a sparsely settled section of the country, but at Smithville, where the works of the H. B. Smith Machine Company are located, there has been a constant source of possible contamination. Notices were served up in the company to perfect the sanitary arrangements at the factory. In the list of contaminations of the stream which follows, the action which has been taken in regard to the contaminations near Smithville is stated.

No. 167. Inspection of the premises located in Smithville showed that excreta was leaking from boxes beneath a privy building on the banks of the Rancocas Creek, also that rubbish was being dumped directly on the borders of the stream, and that a pile of stable manure was located within thirty-five feet of the waters of the stream. Notice to discontinue the contaminations was served upon the owner August 1, 1904. Upon reinspection of the premises it was found that the manure had been removed, and also that improvements had been made in the method of disposal of fecal matter.

No. 196. Upon inspection of premises located near the passenger station at Birmingham, it was found that a privy was located within twelve feet of the creek, and that there was a possibility of the contamination of the waters of the Rancocas Creek. Notice to discontinue was served upon the owners August 1, 1904, and reinspection showed that a new vault had been constructed at a point further removed from the banks of the stream.

No. 197. Upon inspection of premises located at Birmingham it was found that waste fluids from the kitchen sink of a hotel were discharged directly into the Rancocas Creek. The inspection further showed that the waste pipe from the water closet in the hotel building discharged into a ditch leading from the nouse toward Rancocas Creek. This ditch was obstructed about fifty feet from The inspection also showed that waste liquids from the laundry buildings on said premises were discharged into a gutter outside of the foundation wall, and flowed over the surface of the ground toward Rancocas Crek for a distance of about fifty feet, and that a privy building is located near the laundry and within twenty feet of the borders of the stream. Stable manure is also deposited upon the ground at one end of the stable building within twenty-five feet of the stream. Notice to discontinue the contaminations was served upon the owner August 1, 1904, and upon reinspection of the premises it was found that the notice had been complied with.

No. 200. Upon inspection of premises located in Smithville, it was found that excrement was conveyed into a field south of a factory, and deposited upon a side hill within 135 feet of the Rancocas Creek. Notice to discontinue the contamination was served upon the owner September 6, 1904, and a communication was received from the owner stating that the polluting material had been removed, and that in future more care would be exercised in the disposal of the contents of the privy vaults.

#### Morris Lake.

The following is a report of an inspection of Morris Lake: Board of Health, State of New Jersey:

GENTLEMEN—On June 13, an examination was made of the public water supply of Newton. The inspection was made in company with three of the Water Commissioners. The public water supply of Newton was introduced in 1895. The source from which the supply is obtained is Morris Lake, near Sparta, and the water reaches the town of Newton by gravity. At the

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time of the introduction of the supply a number of chemical examinations were made, and it was ascertained that the water of the lake was of a high standard of purity. The lake is fed by mountain springs, and by several brooks. A dam was constructed at the lower portion of the lake, so as to increase the amount of water which was stored. The point at which the lake is situated is an elevated one, and the surrounding country is sparsely settled. The investigation showed that the Water Board, having control of the lake, has also under its care a boarding house, which is rented to a person who is supposed to have supervision of the lake. In this boarding house, in the summer time, there are sometimes from thirty to forty boarders. house is located within 150 feet of the lake, and the ground surrounding the houses reaches to the shores of the lake. age from the bath rooms and closets is discharged at a point below the dam, and there is therefore no contamination of the stream from household waste. There was evidence that the tendency is to make the premises surrounding the boarding house a picnic ground, and that the very fact that there was such a building in close proximity to the lake led people to come from distant points for the purpose of spending the day. Information was obtained showing that a number of people from Sparta were accustomed to walk up the glen from Sparta, and spend the afterneoon on the shores of the lake. The lessee of the boarding house also has a number of boats which are rented to parties in the summer season, and also to fishermen. No bathing whatever is allowed in the lake. The location of the lake is such that it is not difficult to prevent any contamination of its waters, and as the supply is of such a standard of purity, and so valuable to the inhabitants of Newton and Sparta, it is essential that every effort should be put forth to prevent the use of the lake as a resort. The town of Newton owns the ground upon which the boarding house is placed, and by renting it for the purpose for which it is used there is the possibility of changing a pure and potable water supply into a polluted and dangerous one. The conclusion therefore reached is that the house, which is at present used as a boarding house, should be abandoned for that purpose, and that all use of the shores of the lake, which are under the control of the Water Board, should be limited in every way possible, and that there should be a careful patrol of the banks of the lake for the purpose of preventing, as far as possible, any tendency to pollution.

# Legal Decisions.

NUISANCES CAUSED BY THE DISCHARGE OF SEWAGE FROM WEST HOBOKEN INTO THE CITY OF HOBOKEN.

Upon request of the mayor of the city of Hoboken the State Board of Health caused an inspection to be made of the outfall of a sewer in West Hoboken and the report of this inspection showed that the sewage was discharged over the rocks and formed a pool within the limits of the city of Hoboken there constituting a public nuisance because of the offensive gases which were emitted and because the stagnant fluids afforded a breeding place for mosquitoes. Notice requiring the abatement of the nuisance was sent to the authorities of West Hoboken, and, no action being taken, a suit was ordered under the provisions of the act of May 24, 1894. The final decision in this case was filed February 2, 1904, as follows:

IN CHANCERY OF NEW JERSEY.

Between

THE STATE OF NEW JERSEY, ON THE RELATION OF THE STATE BOARD OF HEALTH,

Complainant,

and

THE TOWN OF WEST HOBOKEN, IN THE COUNTY OF HUDSON, AND THE MAYOR AND COUNCIL OF THE CITY OF HOBOKEN,

Defendants.

On Bill, &c., FINAL DECREE.

This cause coming on for final hearing in the presence of COLLINS & CORBIN Solicitors and Counsel for complainants; AUGUSTUS A. RICH, Counsel for the Town of West Hoboken, and JAMES F. MINTURN, Counsel for The Mayor and Council of the City of Hoboken; and witnesses having been examined, and counsel heard:—

IT IS, on this Twenty-eighth day of January, A. D., Nineteen Hundred and FRour, on motion of COLLINS & CORBIN, Counsel for complainant, ORDERED, ADJUDGED and DECREED that a public nuisance exists, injurious to the public health, within the territorial jurisdiction of the local Board of Health of the City of Hoboken, having a source and origin outside of the limits of such territorial jurisdiction, namely, the discharge from the sewer and drain mentioned in the bill on lands and streets in the City of Hoboken of sewage collected in the Town of West Hoboken

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by the public sewers of the city and by private drains and flowing from the cliff into the territory of the City of Hoboken, and that the Town of West Hoboken, in the County of Hudson, is responsible for so much of said nuisance as is caused by the discharge of sewage, and is chargeable with the duty of abating the same, and that The Mayor and Council of the City of Hoboken are responsible for so much of said nuisance as is caused by permitting the sewage to stand on sunken lots in their territory without making any provision, either for the drainage of said land by sewers, or for the filling up of vacant sunken lots, and are chargeable with the duty of abating the same; and the Court doth hereby ORDER, AD-JUDGE and DECREE, that the Town of West Hoboken, in the County of Hudson, shall abate said nuisance within eight months from the date of this decree, and thereafter shall cease and refrain from discharging any sewage from said drain directly or indirectly from said lands or streets in the City of Hoboken, and that The Mayor and Council of the City of Hoboken shall abate said nuisance within eight months from the date of this decree, and shall thereafter cease and refrain from maintaining pools of stagnant water and sewage upon the cavant lots upon which surface water from the lands as described in said bill discharge and remain stagnant, and that a writ of injunction do issue against the Town of West Hoboken, in the County of Hudson, and The Mayor and Council of Hoboken, and their officers and agents, commanding them to comply with all and singular the premises so enjoined upon them.

AND IT IS FURTHER ORDERED that the complainants do recover their costs of this suit against said defendants, one half against each, with a counsel fee of one hundred and fifty dollars to be taxed in the costs. Respectfully advised,

JOHN R. EMERY, Vice Chancellor.

W. J. MAGIE,

'n

PROCEEDINGS UNDER THE OLEOMARGERINE ACT.

New Jersey Supreme Court, June Term, 1904.

George W. McGuire, Chief Inspector, who sues, &c., def't in certiorari,

vs.

Jacob Goldberger.

Plaintiff in Certiorari.

ARGUED February 17, 1904.

DECIDED June 13, 1904.

Where a judgment has been rendered in a District Court for a penalty imposed by the olemargerine act (P. Y. 1886; p. 107; G. S. 1186) and there is open to the defendant the remedy by appeal under Sec. 13 of said act to the court of Quarter Sessions of the county and also by a writ of certiorari to this court, and he collects to pursue the remedy by an appeal

which is afterwards dismissed for want of prosecution, the remedy by certiorari is no longer available.

On certiorari to the District Court of the City of Perth Amboy. Before Justices Pitney and Hendrickson. For plaintiff in certiorari, Mr. James S. Wight; For defendant in certiorari, Mr. William A. Coddington.

The opinion of the court was delivered by Hendrickson, J.

This writ brings up for review the judgment and proceedings of the District Court of the City of Perth Amboy, in the County of Middlesex, in an action brought against the plaintiff in certiorari by George W. McGuire, Chief Inspector, who sues for the use of the State of New Jersey, on complaint for violation of section 4 of the oleomargerine act, approved March 22, 1886 (P. L. 1886, p. 107; G. S. 1166). The charge contained in the complaint was the sale of—"a substance in imitation or semblance of natural butter at retail, &c., without first informing the complainant, the purchaser thereof, that the same was not natural butter but was imitation butter," &c., as required by the fourth section of said act. The case come on regularly for trial in the presence of the parties, and after the prosecutor rested his case, the defendant not offering any testimony, the Court gave judgment for the prosecutor in the sum of one hundred dollars, being the penalty fixed by statute for the first offence thereunder.

The plaintiff in certiorari has assigned a number of reasons for the reversal of this judgment, which are unnecessary to be considered by us, since the prosecutor below has pointed out what seems to us to be a bar to the proceedings here. The return shows that in due time after the judgment of the District Court to the court of Quarter Sessions of the county, &c., by filing a notice thereof in writing in said Court, pursuant to section 13 of said act. The return further shows that the appellant failed to appear and prosecute his appeal in the Middlesex Quarter Sessions agreeably to law, and that the same was by the Court ordered to be dismissed with costs. Afterwards this certiorari was allowed. We are asked to dismiss this writ under the circumstances herein stated. It is apparent that the plaintiff in certiorari was entitled to review these proceedings either by appeal to the Quarter Sessions or by writ of ceriorari in the Supreme Court. But having made his election to pursue his remedy by appeal to the Court of Quarter Sessions, which was there dismissed for want of prosecution, the other remedy by certiorari is not now available. Furman v. Motley, 38 Vr. 174; Illenworth v. Ruh, 29 Vr. 507. We think the principle stated in the cases here cited is sound, and the result is that the writ of certiorari is dismissed with costs.

#### CELLAR BAKERIES.

Justice of the Peace Thomas H. Cumming, of Hackensack, rendered a decision August 12, 1904, in the suit brought by the department of fire inspection against Joseph Messineo, a baker, of Garfield, Bergen County, in which he finds Messineo guilty of violating the law prohibiting the establishment of cellar bakeries, and orders that he pay a fine of \$100.

The suit was brought under the act of 1903, which was an amendment to the act of 1896, regulating the establishment of bakeries. The Messineo bakery was opened last December after a warning from the department that it would be a violation of the law.

#### REGULATIONS OF BARBER SHOPS.

## LA PORTA V. BOARD OF HEALTH OF CITY OF HOBOKEN.

(Supreme Court of New Jersey. June 13, 1904.)

1. The Legislature has given ample authority to the Board of Health, in the exercise of the police power, to prevent the spread of contagious skin diseases in barber shops, and stringent regulations for that purpose are lawful.

(Syllabus by the Court.)

Certiorari by the State, on the prosecution of Nicholas La Porta, to review an ordinance of the Board of Health of the City of Hoboken. Certiorari dismissed.

Argued February term, 1904, before VAN SYCKEL, FORT, and GARRETSON, JJ.

Leon Abbett, for prosecutor. Edwin A. S. Lewis, for defendant.

VAN SYCKEL, J. This suit certifies unto the Supreme Court an ordinance of the Board of Health of Hoboken providing rules to be observed in barber shops to prevent contagious diseases of the skin, and fixing a license of \$2 in each case. The Legislature has given ample authority to the Board of Health, in the exercise of the police power, to prevent the spreading of contagious skin diseases. Gen. St. p. 1644, Sec. 49; Gen. St. p. 1642, Sec. 39. Powers conferred for the preservation of the public health should receive a liberal construction, so that they may be rendered effective. Morford v. Board of Health, 61 N. J. Law, 389, 39 Atl. 706; Gregory v. City of New York, 40 N. Y. 273. The license fee which may lawfully be imposed for regulation is reasonable in this case for that purpose. Benson v. Hoboken, 33 N. J. Law, 280; Muhlenbrinck v. Long Branch, 42 N. J. Law 364, 36 Am. Dec. 518; Blanke v. Board of Health, 64 N. J. Law, 42, 44 Atl. 847. In the agreed state of the case it is admitted that the license fees will not be sufficient to pay the additional expenses of printing, clerical work, and of inspection required of the Board of Health by the ordinance.

The only reason assigned for holding that the statutory requirements were not observed in passing the ordinance is that it was not published for two weeks before taking effect. Gen. St. p. 1638, Sec. 16. It was adopted on the 23d of December, 1903, and, by its terms, was to take effect on the 1st day of January, 1904. Gen. St. p. 1638, Sec. 16, was amended by section 9, p. 1644, which provides that the ordinance shall be published at least one week prior to its final passage. By the the agreed state of the case it is admitted that the ordinance was adopted on December 23, 1903, and that it was thereafter published for two weeks. The case fails to show whether it was published before its adoption. The objection now made as to publication is not assigned as a reason, and is not supported by proofs. The writ of certiorari should be dismissed, with costs.

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# Report on Infectious Diseases of Animals.

Early in June, 1904, it was reported that cases of anthrax had occurred in Cumberland County. Examination of specimens from the infected animals, made at the State Laboratory of Hygiene, proved that the diagnosis of the disease was correct. The supervision of the inoculation of exposed animals, quarantining of premises and proper disposal of the carcasses of infected animals was placed in charge of S. C. Tremaine, D. V. S., of Bridgeton, and his report of the epidemic is herewith submitted.

"To the Board of Health of the State of New Jersey.

Gentlemen:-Last April I inoculated a few herds of cattle in the anthrax infected district of last year in Greenwich Township, Cumberland County, and among them a small herd that was to be turned out on the salt meadow belonging to Henry Bacon. Mr. Bacon had lost eight cattle in 1903 from anthrax, and felt it necessary to take this precaution before exposing the animals to the infected pasture. About two weeks after these cattle were turned out three others were sent to the same meadow by C. J. Fithian, of Bridgeton, N. J. About ten days from that time I received word that one of the Fithian cattle had died very suddenly. I immediately drove to the farm to investigate, and feeling sure this was a case of anthrax sent a specimen to the State Laboratory of Hygiene and in due time received a report which proved the diagnosis to be correct. On the 7th of June I received instructions to inoculate the remainder of the stock on this farm that had not been previously inoculated, consisting of ten cattle, four horses and two mules, and also the stock on the farms adjoining. This was done as quickly as possible. No other deaths occurred in this neighborhood. On the 14th of June I was called to the farm of Elbert Newkirk, in the same township three miles distant from the Bacon farm, to see a horse supposed to be suffering from bee sting, but which proved to be a case of anthrax. Six days from that date another horse died from the same malady. On the 22nd of June a representative of the State Board of Health instructed the township committee to post notices to the effect that all animals exposed to infection from the disease should be quarantined unless protected by

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inoculation, and also informed them that the protection would have to be at private expense. I received instructions from the State Board of Health on that date to inoculate as before the animals on the infected Newkirk farm and the farms adjoining. This was done with the result that no more deaths occurred on these farms. I had then inoculated 62 cattle, 19 horses and 2 mules which ended my work, as my instructions were to confine the inoculations strictly to animals liable to infection in the immediate vicinity of the disease. Three other deaths occurred from anthrax in Greenwich Township, and the animals on three farms were immediately inoculated. No other cases of anthrax occurred in this locality. A report of an outbreak of anthrax was sent to me from Heislerville, Maurice River Township, and on the 18th of July I investigated and found that seven cattle had died from anthrax on the farm of Anson Thompson. When the disease first made its appearance several parties pasturing cattle on this farm removed them to their own farms and several of the animals died, and as a result a larger area was infected. I met the township Board of Health and they heartily endorsed preventive inoculation and were ready to do anything in their power to stop the spread of the disease. On July 20 I began to inoculate against anthrax in Maurice River Township, and inoculated 223 head of cattle, 119 horses and 6 mules. Twenty head of cattle died within two weeks from the time the disease first made its appearance, and but two deaths occurred after the first inoculation. These deaths were of animals pasturing in a field that had been infected by the death of one of the cattle removed from the Thompson farm. The farmers of Maurice River Township gladly accepted the preventive inoculation and spared no pains to dispose of the cadavers under my directions. Very respectfully,

S. C. TREMAINE, D. V.S."

#### GLANDERS.

During the year ending October 31, 1904, 87 cases of glanders have been reported to the State Board of Health. Examination of the report of infectious diseases of animals for the year ending October 31, 1903, shows that in that year 237 cases were reported. It is therefore evident that the epidemic of this disease is under control, except in the counties of Essex and Hudson. In 1903 169 cases of glanders occurred in Essex County. The report for the present year shows that but 19 cases were reported in the same county. In Hudson County only 40 cases occurred in 1903 and 51 in the present year. The following list shows the sanitary district in which the cases occurred, together with other data which may be of interest:



NAME OF SANITARY DISTRICT.	DATE AND NUMBER OF CASES REPORTED.				NAME OF PERSON MAKING REPORT.	DISPOSAL OF EACH CASE.		
Jersey City	Nov.	11.	1903	10	W. H. Lowe,	Animal o	estrover	
Passaic	**	14,		Ĩ	W. H. Lowe,			
West Hoboken	**	24.	**	1		**	44	
Glen Rock	**	30.	**	ĩ	** **	•	**	
Jersey City	:: <b>"</b>	30.	**	2	** **	**	**	
Newark		8.	**	ī	** **	**	**	
Newark	. Jan.	9.	1904	ĩ	** **	44	**	
Jersey City	**	26.	,,	2	** **	**	**	
Newark	. Feb.	3.	**	2	** **	44	**	
Newark	"	7.	**	2	** **	44	**	
Orange		7.	**	ī	** **	**	**	
Bayonne		13.	44	ī	** **	**	**	
Belleville	**	16.	**	ī	J. P. Lowe.	**	**	
Kearny		18.	44	3	W. Runge,	**	**	
ersey City	44	23.	**	3	W. H. Lowe,	**	**	
Newark	"	23.	**	ž	11. Dowe,	**		
Tersey City		23.	**	3	** **	**	**	
Jersey City	. Mar.	4.	**	š	** **	**	44	
Paterson		<b>5</b> ,	**	ĭ	44 44	**		
Carlstadt		16.	**	î	** **	**	,,	
Freat Meadows	•••	16.	**	â	Owner	**	44	
Vewark	••	16.	44	ĭ	W. H. Lowe,	**	**	
Vewark		20.	**	î	J. W. Dowe,	**	••	
assaic		2,	44	î	J. P. Lowe,	**		
assaic.	74	<b>ã</b> ,	4	î	J. P. Lowe,	**	**	
Vewark	"	7.	**	î	C. Bowen,	**		
edar Grove	• • • • • • • • • • • • • • • • • • • •	10.	**	î	Raymond Smith.	**	**	
Bayonne		21,	**	î	R. J. Halliday,	**	**	
Bayonne		ĩô.	**	î	ii. J., Halliday,	**		
East Orange		18.	**	i	W. F. Harrison	**	,.	
Newark	• • • • • • • • • • • • • • • • • • • •	17.	**	î	D. C. Bowen.	44		
ersey City	Tular	15.	**	i	D. C. Bowen, D. C. Bowen.	**		
arlstadt	July	23,	**	2	W. J. Fredericks,	٠	**	
ersey City	• • • • • • • • • • • • • • • • • • • •	23, 8,	**	11	W.J. Fredericks,	**	**	
Passaic	•••	9,	**	11	Henry Smellie, J. P. Lowe		**	
Bayonne		22.	**	2	R. J. Halliday.			
Haledon.	· · A	6.	**	í		••	••	
Appear City	Aug.	6,	**	i	W. H. Lowe,		44	
ersey City		8,	44	3	Henry Smellie W. H. Lowe,	**	**	
Jnion Hill	• • • • • • • • • • • • • • • • • • • •	8, 8.	**	2	w. n. Lowe,	**	44	
Bayonne		26.	**	2	D T Walliday	**		
assaic			**	í	R. J. Halliday,		44	
Assaic	эер <b>т.</b>	8,	44	1	J. P. Lowe,	•	44	
Newark		23,	**	1	David D. Chandler		**	
assaic		7,	**		J. P. Lowe,			
Vewark		20,	**	2	David D. Chandler			
ersey City		22,		ļ	Henry Smellie			
ersey City		25,	**	1			::	
ersey City	• •	26,		1				
ersey City		31.	•••	1	••	••	••	

Examination of the foregoing table shows that the cases of glanders which were reported from different counties are as follows: Bergen, 3; Cumberland, 1; Essex, 19; Hudson, 51; Passaic, 8 and Warren 5, making a total of 87 cases.

The distribution of glanders in the larger cities during the year was as follows: Bayonne, 7 cases; Jersey City, 25; Newark, 15; Passaic, 6 and Paterson 1.

#### SUMMARY.

Losses of animals from anthrax 26. Vaccinations for anthrax 431. Animals destroyed on account of glanders 87. Cases of actinomycosis reported 4; forage poisoning 2; erysipelas 1; rabies 3 and tuberculosis in cattle 4.



# Reports on Inspection of Portions of Shrewsbury River and Raritan Bay With Reference to the Production of Oysters and Clams in these Waters.

#### SHREWSBURY RIVER.

Board of Health of the State of New Jersey:

Gentlemen: -An inspection of Pleasure Bay and the Shrewsbury and Navesink rivers shows that oysters and clams are taken from these rivers from Sandy Hook Bay to the head of the streams. The oysters are mostly planted, and are placed in the upper portions and near the head of the streams, where they are said to thrive and grow well, while the clams are natural to these waters, and are to be found very plentifully near Sandy Hook Bay. It may be that the oysters grow better near the head of the rivers, yet it would seem that the convenience of those engaged in the industry may govern this, for in many instances the places of planting are found to be in waters adjoining properties occupied by their owners, thereby giving the better opportunity for him to guard the property, which he has placed in waters over which he has no legal control. against theft. The question of pollution of the waters appears not to be taken into consideration by planters of oysters, for they are to be found in waters washing the shores of backyards of properties located in thickly populated districts.\* No reliable information was secured showing the extent of the oyster industry in these streams, and in fact, on account of the considerable number of persons engaged therein, many on a small scale, it is somewhat difficult to gather information on this point. I was informed, however, by one of the larger planters, that he estimates the value of the fish and oyster industry in the Shrewsbury River and Pleasure Bay to be about one-fourth of a million dollars annually, and by another that there are not less than two thousand persons dependent on the fish and oyster business in Pleasure Bay and the Shrewsbury River for a livelihood. It was stated that the oysters taken from Pleasure Bay and the Navesink River are not improved by placing them in other places than the grounds where they are planted to drink, and this practice when resorted to is done more as a convenience in marketing than to fatten the oyster, and in any case, it is shown by inspection that the places in which floats are kept on which oysters are placed to drink, are in waters no more polluted than the grounds on which the oysters are grown. study of the sources of pollution which might injuriously affect the oysters

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<sup>\*</sup>Cuts showing pollution of waters in which oysters are freshened will be found in folder.

taken from these waters, shows that on the banks of the two rivers and the bay are many towns and summer resorts, which discharge crude sewage through public sewers and private drains into the waters of the river and bay which wash their shores. The sewage from Highlands of Navesink, Highland Beach, Navesink Beach and Normandie discharge into the water on its way from Sandy Hook Bay into the two rivers. The Shrewsbury branch is further polluted by the sewage from Rumson Beach. Seabright, Low Moor, Monmouth Beach, Pleasure Bay and Little Silver. and on the Navesink River is located Oceanic, Fairhaven and Red Bank, In addition to the places above named, the shores of the bay and the two rivers, from Sandy Hook Bay to their head waters, are dotted with summer homes, from which sewage is discharged directly into the river, and in many instances the drains dischrage practically onto the oyster grounds. From the waters along the shore directly in front of Pleasure Bay, oysters were at the time of inspection being taken for market from the very mouth of the sewers discharging into the bay in front of hotels. where many thousands of pleasure-seekers congregate daily. The depth of the water on the grounds from which oysters are taken in the rivers and bay varies from about one to five feet, while the average rise and fall of the tides at Seabright in the Shrewsbury River and Pleasure Bay is stated to be about eighteen inches. In the narrow part of the Shrewsbury River, from the mouth of Navesink to a point more than one mile above Seabright where the river broadens, a swift current flows and, on the flood tide, sweeps the sewage poured into it along three miles of thickly populated river front into the upper part of the river and bay, where it is spread over the flats upon which oysters and clams grow, and where the movement of water becomes slow and sluggish. At the head of Pleasure Bay on the grounds occupied by the Long Branch garbage disposal plant, tons of night soil are stacked on the borders of the stream, where, I am informed by an employe, six or eight loads of material removed from privy vaults and cesspools are deposited upon the ground daily, from which drainage flows directly into the stream and down the bay over the oyster grounds one mile below. At Red Bank the effluent trom the sewage disposal works is discharged through a pipe into the river at a point about fifty feet from the oyster beds, located one just above and one just below the sewer outfall. In order to show more accurately from what places oysters are taken from these waters and the points where the sewage pollution was noted, I have prepared a map and a number of photographs, which are attached to and made a part of this report. It should be stated here, however, that all spots where sewage pollution takes place shown on said map do not represent all of the points at which sewage is discharged into the streams, and no reference is made herein for other sources of pollution, which, together with sewage pollution, many of the oystermen and fisherman assert is proving ruinous to their business. Samples of oysters from Pleasure Bay and the Navesink River have been sent to the laboratory for examination.

Respectfully submitted,

D. C. BOWEN, Ass't. Insp. F. and D.

July 7th, 1904.



#### RARITAN BAY.

Board of Health of the State of New Jersey:

Gentlemen:—Inquiry into the location of the grounds from which oysters are taken from Raritan Bay and the place of fattening the oysters which are shipped to market from Keyport, Monmouth county, shows the following facts:

The main grounds are located off Conaskonck Point, beginning about six hundred feet from the shore and extending more than a mile into the These grounds are evidently far removed from any source of sewage pollution. There are a few small grounds near the mouth of Matawan Creek, about six hundred feet distant from the shore of the bay skirting the town of Keyport. After the oysters are taken from the grounds they are placed upon beds prepared for the purpose in Luppatotong Creek, to drink. This creek is a small stream, about fifty feet across at its widest point, and it drains a tract of marshy ground extending several miles back into the country. The drinking beds are covered with about siz feet of water at high tide and are barely covered at low tide, at which time the water is clear and but slightly brackish. During the flood tide the creek is filled with water, which washes the shores of the town of Keyport on its way in from the bay. The drinking beds are mostly located within seven hundred feet from the mouth of the Creek. There is one place, however, about three-fourths of a mile above this point, where oysters are placed in the stream to drink. There are two dwellings located near the banks of the stream above the fattening beds near the mouth of the Creek, but no drains were found discharging into the Creek from these places. The border of the Bay below the mouth of the Creek for a distance of more than one-half mile is lined with dwellings, many of which have house drains discharging directly on the sands of the shore at low tide, and at high tide these drains discharge directly into the waters of the bay. In some instances, privy buildings are so placed that excrement falls directly into the bay. On the flood tide, it would therefore seem that some of the waters receiving pollution from the drains and privies above referred to, must flow into the Creek and over the fattening beds. In the first eight to twelve hundred feet below the mouth of the Creek was noted eight house drains and as many privy buildings which discharge directly into the bay, and in the next eight to twelve hundred feet, was counted eight house drains discharging into the bay, and five privy buildings, located within a few feet of the waters edge at high tide. In this entire distance there are about seventy dwellings and business houses, the backyards of which border upon the bay. I am informed by Mr. A. S. Van Buskirk, manager for J. W. Elsworth & Co., the largest planters and shippers of oysters from this point, that there are about 150,000 bushels of oysters taken from the bay and fattened for market in Luppatotong Creek each year. During the opening season, it was stated ,the firm above referred to, ships to the western markets about 40,000 gallons of oysters, which are opened at this point.

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Clams are taken from the bay and placed upon a float about one hundred and fifty feet from the shore, directly opposite the point where a number of house drains discharge into the bay.

Respectfully submitted,

D. C. BOWEN, Ass't. Insp. F. and D.

May 26th, 1904.

# Report of the Director of the State Laboratory of Hygiene.

To the Board of Health of the State of New Jersey:

Gentlemen:—I have the honor to submit the following report of the operations of the State Laboratory of Hygiene during the year ending October 31st, 1904.

The State Laboratory of Hygiene is located at 147 East State street, Trenton, N. J., and consists of two departments—the Bacteriological Department, and the Department of Food and Drugs. The Bacteriological Department is engaged in the examination of specimens for diagnosis from suspected cases of certain communicable diseases, in the bacteriological examination of water from public and private supplies, and in such other investigations bearing upon the public health as it may be called upon from time to time to perform. The Department of Foods and Drugs is engaged in the analysis of specimens of food and drugs, the authority for such examination being contained in an act approved March 21, 1901, entitled. "An act to secure the purity of food, beverages, confectionary, condiments, drugs and medicine, and to prevent deception in the distribution and sales thereof." The work of both these departments has in general followed the same line as that pursued during 1903. The amount of work, however, in both departments has increased. In particular, the examination of specimens of water from public and private supplies has increased greatly, and has become a serious tax upon the members of the laboratory staff, and upon the equipment of the laboratory. Certain new methods have been introduced in both departments which, while they insure greater accuracy and rapidity of results, require a larger expenditure of time and necessitate an increased equipment. The number of specimens examined in the Bacteriological Department during the year was 6,730, an increase of 1,171 over the number examined in 1903. The number examined in the Department of Foods and Drugs was 3,772, an increase of 246 over those examined in 1903. It should be remembered in this connection, that for eleven months of the year, we have been compelled to get along without an assistant chemist, Mr. Brewer having resigned on January 1st, 1904. On account of lack of funds it was deemed inadvisable to replace him at that time, and the position has since been vacant.

This increase of work, while it is very gratifying to all concerned, has become embarrassing because of the increased expenditures involved.

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For the last three years the amount of money annually available for the maintenance of the Bacteriological Department has been \$4,000. In 1901, the first year when this appropriation was made, the number of specimens examined was 3,955, and the laboratory was located in Princeton, where running expenses were considerably lighter than they are at Trenton. Since that time the number of specimens examined has nearly doubled. and some entirely new lines of work have been taken up, the cost of apparatus and supplies has decidedly increased, yet the appropriation has remained the same. The sum of \$4,000, which was adequate in 1901 to maintain the laboratory and allow for reasonable growth, is now entirely too sman, and it is with the greatest difficulty that it has been possible to continue the service and comply with the increased demands upon us; and, unless some provision is made in the near future to enable us to meet these demands in a more satisfactory manner than we can at present, it will be necessary to curtail this most important work and possibly to abandon certain lines of it altogether.

In the Department of Foods and Drugs a considerable expenditure has been made necessary in order to provide the certain apparatus which is essential in every well equipped laboratory. Unlike most laboratories of its king, this one was not provided at the start with a good equipment, but we were compelled to make use of certain articles loaned some years ago to the department by the Geological Survey of this State. During the year the return of these articles was demanded by the Geological Survey, and they have been returned. It was necessary to immediately replace most of them as they were in constant use. Although much apparatus has been added during the year, the equipment of the laboratory is not yet

The present location of the laboratory is unsatisfactory. The room at our disposal is insufficient, and is not arranged to the best advantage. Moreover, the location of a laboratory, in which large numbers of specimens from communicable diseases are continually handled, in a crowded office building, exposes the other occupants of the building to needless risks. Every precaution is taken to minimize the danger of spreading infection from the laboratory, and thus far no accidents have occurred, but such accidents have occurred in other places in the past. when the greatest care is taken, accidents are possible. While the members of the laboratory staff fully realize the dangers involved in this work, and can therefore take all possible precautions to protect themselves, people not familiar with risks incurred cannot be compelled to take the same precaution. It is therefore desirable that a laboratory where pathogenic bacteria are under investigation should be located in a building devoted to no other purpose, and not accessible to the public. In such a location proper precautions can be taken to prevent the dissemination of disease germs.

For many lines of bacteriological examination it is necessary to keep a stock of animals for experimental purposes. This is impossible to do while the laboratory is in its present location, and certain important investigations are rendered difficult and some times impracticable because animals are not available. Thus it is impossible to make routine examinations for glanders, as we have no facilities for keeping the necessary guinea pigs. The inconvenience caused by lack of facilities for keeping animals has recently been strikingly demonstrated. During the month of October a request was received from the Trenton Board of Health to test certain lots of diphtheria antitoxin which had been purchased by them and about which complaint had been made. In determining the antitoxic strength of this serum it was necessary to make use of a large number of guinea pigs. There was no place for them in the laboratory, and therefore the test had to be conducted under very unfavorable conditions on a farm more than six miles away; the owner of the farm having kindly placed one of his buildings at the disposal of the laboratory.

The amount and variety of work which is done at the laboratory increases considerably every year, and that this is so is an indication of its usefulness to the public. There is reason to believe that this increase will steadily continue. Throughout the country, such laboratories as this are becoming more and more necessary in the investigation and control of matters relating to the public health. The time has come when the State Laboratory of Hygiene has outgrown its appropriation and its quarters. Unless an increased appropriation and better facilities in the way of room and equipment can be provided, it will be necessary to abandon some of the lines of work recently undertaken, which are of great importance. Such a course would result in a check to the work of the laboratory from which it would take years to recover. It is, therefore, earnestly desired that increased facilities be provided in the near luture.

Bacteriological Department.—The bacteriological laboratory is open for the reception of specimens from 8 A. M. until 5 P. M. every day except Saturday and Sunday. On Saturday the laboratory closes at noon, and on Sundays and holidays it is open from 8:30 A. M. to 10 A. M. The last mail received at the laboratory arrives at 7 P. M. on weekdays and at 12 M. on Sundays. Specimens coming in by these mails will be examined on the following morning.

Routine Work.—The regular work of the bacteriological department consists of the routine examination for diagnosis of specimens from suspected cases of diphtheria, pulmonary tuberculosis, typhoid fever and malaria, and the bacteriological examination of samples of water from public and private supplies. Beside this regular work, the laboratory is prepared to undertake, when practicable, the investigation of other communicable diseases.

Outfits.—For the regular work the laboratory provides mailing cases conforming to the requirements of United States Postal Order No. 176\*,

<sup>\*</sup>Order No. 176.

March 2, 1900.

That the order of the Postmaster-General of December 27, 1897 (Order No. 677), prescribing the conditions under which specimens of diseased tissues may be admitted to the mails, is modified as follows:

which cases are distributed to repositories located throughout the State, and can be obtained from them or from the laboratory, on request. A list of these repositories will be found on pages 205 to 212 of this report. Persons desirous of having specimens other than those above mentioned examined should, in every case, make application to the director of the laboratory, in writing, before sending the specimens.

Regulation Governing Receipt of Specimens.—No specimens from suspected cases of diphtheria, pulmonary tuberculosis, typhoid fever or malaria will be received for examination unless they are inclosed in the containers provided by the laboratory, unless the postage thereon is fully prepaid and the blank form accompanying the container fully filled in. Physicians are requested not to send specimens of urine, tumors, etc., to the laboratory, as no examinations will be made of such substances, the work of the laboratory being devoted wholly to the public health interests of the State.

Reports.—Reports of the results of examinations are invariably sent by mail. If the physician requests it, an additional report will be sent by telegraph at the expense of those interested. Reports will be made by telephone if the physician desiring such a report calls the laboratory and asks for it. On account of the possibility of mistakes due to the reception of telephone messages by unauthorized persons, and to imperfect transmission over long distances, the laboratory will not assume any responsibility for the correctness of reports issued by telephone, nor will physi-

Specimens of diseased tissues may be admitted to the mail for transmission to United States, State or municipal laboratories, only when inclosed in mailing packages constructed in accordance with the specifications hereinafter enumerated. Liquid cultures, or cultures, of microorganisms in media that are fluid at the ordinary temperature (below 45° C., or 113° F.), are unmailable. Such specimens may be sent in media that remain solid at ordinary temperatures.

Upon the outside of every package shall be written or printed the words, "Specimen for Bacteriological Examination. This package to be treated as letter mail." No package containing diseased tissue shall be delivered to any representative of any of said laboratories until a permit shall have first been issued by the Postmaster-General certifying that said institution has been found to be entitled, in accordance with the requirements of this regulation, to receive specimens.

Specifications for the construction of packages for safely conveying through the mails pathological specimens for bacteriological examination for diagnosis in cases of suspected diphtheria, tuberculosis, and other communicable diseases:

- 1. The receptacle for moist specimens of diseased tissues shall be a strong glass vial or test tube having a capacity not greater than two drams. Said vial shall be covered and made water-tight by the use of a metal schew cap and a rubber or felt washer which has been immersed in melted paraffine; or, if a test tube be used, it shall be covered with a tightly-fitting rubber cap.
- 2. Said vial or test tube shall be placed inverted in a circular tin box. Said box shall be made of I. C. bright tin-plate, and shall have flush or countersunk bottom and soldered joints and not be smaller than one and

cians be called on the telephone for the purpose of reporting results to them.

Diphtheria.—The outfit for collecting a specimen from a case of suspected diphtheria consists of a circular, screw-capped, pasteboard-lined box, on the outside of which is a blue label bearing the address of the laboratory. Within is a small tube containing a sterile cotton swab on the end of a wire, and a blue slip, on one side of which is printed directions for preparing the specimen and on the other a form, which must be completely filled in if the specimen is to receive attention. It is of the greatest importance that this form be filled in legibly and in ink. Every slip is preserved and constitutes a permanent record of its case, and confusion constantly occurs because it is impossible to read the name of the physician, that of the patient, or both. Postage on all specimens must be fully prepaid at letter rates. If this is not done specimens are liable to serious delay in the post-office. Specimens from cases of suspected diphtheria are examined every day in the year. Those received at the laboratory at or bfore 7 P. M. are planted on modified Loeffler's medium, incubated over night at 37.0 degrees C., and examined at 8 A. M. on the following morning Specimens received in the morning, before 11 A. M., are immediately planted and placed in the incubator. At 5 P. M. they are examined. It is frequently possible to find diphtheria bacilli after incubation for this length of time, and at least twelve hours are saved when they can be demonstrated on the same day on which they were planted. A negative result after such a short incubation is unreliable, and the specimen, if no

one quarter inches in diameter and five and one-half inches long. This box shall be closed by a metal screw cover and a rubber or felt washer, or tightly-fitting metal sliding cover, and it shall be so packed with absorbent cotton that the glass vial or test tube cotnained in said in box shall be evenly surrounded on all sides by said cotton, and the cotton shall be closely laid.

<sup>3.</sup> Said tin box shall be placed inverted inside of a larger tin box similar to the one already described, which should snugly receive the specimen box. Upon the inside of the sides and bottom of this outer box there shall be a lining of compressed paper not less than three-sixteenths of an inch in thickness. Said outer tin box shall be closed by a metal screw cap and a rubber or felt washer; or this outside box may consist of hard wood, being a block having a cylindrical hole bored in one end and extending to within not less than one inch of the opposite end; the open end to be closed with a wooden or metal screw cap with a rubber or felt washer. Or the outside box may be a cylindrical wooden box having a screw cap and washer. The thickness of the sustaining part of the wooden tube to be not less than one-quarter of an inch and be lined as the tin box.

<sup>4.</sup> The receptacle for dry specimens or diseased tissues shall be a glass test tube, three inches in length and one-half inch in diameter. Said test tube shall be inclosed in a circular tin box similar to those already described but measuring two and one-quarter inches in diameter and three and one-half inches in length, and be lined upon its sides and bottom with compressed paper not less than one-quarter of an inch in thickness. Said box shall be closed by a metal screw cap and a rubber or felt washer. Said test tube shall be closely packed in cotton.

diphtheria bacilli can be found in it, is replaced in the incubator and incubated over night in the usual way. This method of examination after five-hour incubation (originally proposed by Bolton) has been in operation for more than a year, and has given gratifying results. It is believed that the time so saved greatly increases the efficiency of the service. Under ordinary circumstances reports of the results of the examination of diphtheria specimens are mailed at 8.30 A. M., and should reach nearly every city in the state on the same day. Reports sent by telegraph should reach the physician by 10 A. M. To insure prompt delivery of letters and telegrams, physicians should be careful to state their full addresses when sending specimens. Specimens mailed in the morning will usually reach the laboratory on the same day, and the physician should receive a report, if sent by telegraph, within twenty-four hours. The postmaster at Trenton has kindly furnished the laboratory with figures showing the hours when mails leave certain towns throughout the State in time to reach the post-office at Trenton on the mail which arrives at 7 A. M. It is impossible at this time to ascertain these figures for every town in the State in which a repository is located, but it is hoped that this will ultimately be accomplished. As many of these figures as have been obtained will be found in the list of repositories.

Interpretation of Results.—Persons having the bacillus of diphtheria in their throats or noses and presenting symptoms of the specific toxaemia absorption of the metabolic products of the showing no symptoms indicating a departure from while they cannot be regarded as naving the disease, are capable of acting as sources of infection, and should be treated as such. It sometimes happens that negative results are obtained from specimens taken from patients who undoubtedly have diphtheria. This may be due to a variety of causes, and a second specimen should always be sent after a negative report has been received if the case is suspicious from a clinical standpoint. It is well established that, in the majority of cases, diphtheria bacilli are present in the throats or noses, or both, of convalescents after all symptoms of the disease have disappeared. In order to find out when the patient ceases to be infectious, it is necessary to have a bacteriological examination made. In no case should a patient be released from quarantine until the specific bacillus has disappeared from the throat and nose. Specimens for release should be taken both from the throat and nose, as it has been found that the bacillus is frequently demonstrable in the nose after the throat is clear. It is very desirable that two consecutive negative reports be received before the patient is released from quarantine, as it has been shown that in a considerable number of cases the diphtheria bacillus has been found after one negative result has been obtained. It sometimes happens that organisms are found in preparations made from specimens sent for diagnosis which resemble somewhat the diphtheria bacilli, but cannot be positively identified as such. In these cases the fact that such bacilli have been found is reported, and another specimen is requested. While the bacilli in the majority of these cases ultimately

prove to be organisms other than the bacillus of diphtheria, it occasionally happens that a second specimen will show typical diphtheria bacilli.

Tuberculosis. The outfit for collecting a specimen of sputum from a case of suspected tuberculosis consists of a circular, screw-capped, paste-board-lined tin case, having on the outside a white wrapper bearing the address of the laboratory and containing another screw-capped tin case in which is a quarter-ounce, screw-topped vial wrapped in absorbent cotton and containing enough carbolic acid solution to disinfect the sputum. Between the inner and outer cases is a white slip, bearing, on one side, directions for collecting the sample, and on the other a blank form to be filled in by the physician. The directions should be carefully followed and the case repacked, care being taken to sc wrap the vial that it will be kept from moving in transit. Postage should be prepaid at letter rates.

Examination of Specimens.—Specimens of sputum are not examined on Sundays or holidays, but, when received on these days, are held until the following morning. Thin smears from the contents of the vials are made on large glass slides, capable of holding twelve smears. These are dried, fixed by heat and stained for five minutes at 80 degrees C in carbol fuchsin. After thorough washing the slide is immersed in a solution of 3 per cent. hydrochloric acid in methyl alcohol until decolorized, then stained for one minute in Loeffier's methylene blue, washed, dried and examined.

Interpretation of Results.—It should always be borne in mind that while the discovery of tubercle bacilli in the sputum of a patient is certain evidence of tuberculosis, yet a single negative result is of little value. In the early stages of the disease the bacilli may be entirely absent from the sputum or present in such small numbers as to escape detection. If a negative report is received on a specimen from a case suspected of having the disease, other specimens should be sent at intervals of a few days until the patient recovers or the bacillus is found. It should also be remembered that there is little or no relation between the number of bacilli present in a single specimen and he stage of the disease. Requests are frequently received for an estimate of the number of bacilli present in a given specimen, or for a comparison between the numbers present in two or more specimens from the same case. It has been customary to give the desired information when possible. This will not be done in the future, as it is believed that erroneous and misleading conclusions are frequently drawn from these reports.

Typhoid Fever.—The examination for typhoid fever is made by Widal's method. The outfit consists of a slip of sheet aluminum, having on one side two roughened depressions to receive the blood. A wire loop is fastened to the slip by means of a gummed label. This slip, together with a card bearing, one side, directions for collecting the specimen, and on the other a blank form to be filled in by the physician, is enclosed in a stout manila envelope, bearing the address of the laboratory on the outside. In collecting blood, physicians should be careful to deposit one full drop in each depression of the slip, and allow the drops to dry without the use of heat before replacing the slip in the envelope.

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Examination of Specimens.—Specimens from cases of typhoid fever are not examined on Sundays and holidays. These specimens are examined by making a dilution approximating one to fifteen with distilled water, mixing with an equal quantity of a twenty-four-hour broth culture of the typhoid bacillus, and examining in the hanging drop. For convenience, the results obtained are divided into three groups: (a) Positive, when agglutination and clumping can be observed within fifteen minutes and are complete within an hour; (b) negative, when neither clumping nor agglutination occur within an hour; (c) atypical, when signs of either clumping or agglutination show themselves but the reaction is not completed within the specified time.

Interpretation of Results.—A positive result from a specimen from a case of suspected typhoid fever at the dilution used is almost certain evidence that the patient is suffering from, or has experienced in the past, an invasion by the typhoid bacillus. A negative result has comparatively little significance, as cases frequently occur in which the reaction is delayed or absent altogether. Negative results from specimens taken before the fifth or sixth day of the disease have no significance whatever. Atypical reactions have no meaning. Subsequently specimens may turn out to be either positive or negative.

Malaria.—Examinations for malaria are made by staining a specimen of blood spread in a thin film on a slide or cover glass with some of the well-known stains devised for the purpose. Wright's is generally used. The outfit at present in use consists of two square glass covers wrapped in absorbent cotton and inclosed in half of a slide mailing case for protection. This outfit is objectionable in many ways and will be discarded as soon as a satisfactory one can be devised.

Interpretation of Results.—The demonstration of the parasite of malaria is satisfactory evidence that the patient is suffering from the disease. A negative report is of little value. The majority of specimens sent to the laboratory are improperly prepared and can only be examined imperfectly and with difficulty. Although the preparation of a thin and even film of blood, such as is needed for these examinations, does not seem to be difficult to the experienced worker, yet a very considerable amount of practice is necessary before it can be satisfactorily done. In chronic cases and in patients to whom quinine has been administered, the parasites in the peripheral circulation are so few in number that very lengthy and careful searching is necessary to demonstrate their presence. To properly examine specimens from such cases requires an expenditure of time far beyond that available with the present laboratory staff.

Other Examinations.—Besides the examinations classed as regular work, a variety of other specimens are occasionally examined, the most important being those from animals suspected of having anthrax, rabies and glanders, the examination of disinfectants, and the investigation of shellfish from certain waters in the State to determine their fitness for human consumption.

Anthrax.—In case an animal is suspected of having died of anthrax a

small amount of blood (preferably from the heart or one of the larger vessels) should be obtained from it with aseptic precautions and sent to the laboratory at once. The outfit issued for the collection of sputum may be used for the purpose if care is taken to thoroughly wash out the vial in order to free it from the carbolic acid which it contains. An ear, cut from an animal suspected of having died from anthrax, wrapped in paper and sent to the laboratory by mail, is NOT a satisfactory specimen and will not be examined. The attention of veterinarians is called to the fact that specimens for bacteriological examination cannot be sent through the mails unless enclosed in containers made in conformity with postal order No. 176 (See page 190, footnote). Unless sent in such containers they will not be accepted for examination. The careless practice, indulged in by certain veterinarians, of sending decomposing portions of animals dead of anthrax through the mails, wrapped simply in paper, is both dangerous and disgusting and calls for severe condemnation.

Reports of the examination of specimens for anthrax will usually be made in from forty-eight to seventy-two hours after the receipt of the specimen.

Rabies .- Animals suspected of suffering from rabies should NOT BE KILLED, but securely confined and kept under observation by a competent veterinarian. Animals in which the disease has progressed far enough to develop those characteristic symptoms which excite suspicion will not live more than a few days, and if kept under observation, a satisfactory diagnosis can be made in much less time than it takes to make an examination in the laboratory. If, however, it becomes necessary to send specimens to the laboratory, the head of large animals and the entire carcass of small ones, should be sent. Under no circumstances should the brain be removed. As it is necessary to inoculate animals and wait for them to develop symptoms of the disease in order to make a satisfactory diagnosis, it is impossible to make a report in less than six days from the date when the specimen is received, and frequently a much longer time will elapse. On account of the lack of facilities for keeping animals for experimental purposes, and the difficulty of obtaining suitable ones at short notice, the examination of specimens for rabies must necessarily be somewhat unsatisfactory and uncertain until better laboratory facilities are available.

Glanders.—The routine examination of specimens from cases suspected of suffering from glanders cannot be undertaken at the present time on account of the lack of facilities for carrying on the work. The examination of specimens for glanders involves the inoculation of animals, and it is impossible to keep a stock of these on hand while the laboratory occupies its present quarters. As soon as suitable accommodations are provided for animals for experimental purposes the examination of specimens for glanders will be made a part of the regular work of the laboratory.

Miscellaneous Specimens.—Specimens other than those above mentioned will not ordinarily be examined. Persons desirous of having such

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examinations made should in every case communicate with the director of the laboratory, stating in detail the character of the examination desired, before sending the specimen.

A tabulated summary of the work of the laboratory during the year is given in Table I. This is arranged by weeks instead of by months as was formerly the custom, in order to correspond with the weekly reports which are regularly made by the laboratory.

Table 1.—Showing the Number of Specimens Examined During the Year, Arranged by Weeks.

				- ALI	THE CO	L Dy 1	A CCW	•• 					
			Diphtheria.		Tuberculosis.		Typhoid Fever.		Malaria.		Miscella-		
•		•											
	WE:	EK											
				•									
	END	ING.								١.			
			اخا	ary	, ×	ary	*	ary	, i	ary.	<b>*</b>	Bry	·
			Primary.	Secondary.	Primary.	Secondary	Primary.	Secondary.	Primary.	Secondary.	Primary.	Secondary	Totals.
												<b>.</b>	
Oct.	1-3, 10	1903	12 29	10 13	24 38	3   5	5 24	2 4	3	1	1		57 117
**	17	"	26	14	37	4	17	3		1	i		103
•	24	*	45	11	35	4	20	2	2		. <b></b> .		119
**	31	*	29	25	25	6	17	4			2		108
Nov.	7	"	54	39	32	5	20	1	2				153
**	14	*	46	27	32	5	18	3		2	1		134
**	21	"	36	23	37	3	28	1		• • • • •	2		130
	28		39	25	37	5	19	1	1	• • • • •	2 1		129
Dec.	5 12	•• · · · · ·	51 41	24 25	35 40	8	9 13	5 3	2	1	1		131 133
	19		58	30	36	3	16	3			3		149
••	26	"	41	54	33	6	23	6	1				164
Jan.	2.	1904	44	35	36	6	17	9	l <del>.</del>				147
,**	9	"	42	45	34	3	25	3	2	!			154
**	16	"	60	28	41	5	17	5	3	!			159
**	23	**	53	25	39	7	17	1	1		3		146
	30	"	40	32	45	8	17	3	2		• • • • •		147
Feb.	6	"	39	31	31	8	22	5		• • • • •	1		137
**	13 20		46 34	29 23	43 31	6 8	27 32	6	3	• • • • • '	1	••••	154 136
**	20 27	44	41	23 16	47	5	24	2	1	• • • • •	2		138
Mar.	5		35	26	55	7	23	4		1		1	151
44	12	"	42	23	50	6	18	4		1		1	143
44	19	"	43	28	37	5	21	3	1	· · · · ·	1		139
**	26	"	24	22	45	8	25	6	1		2	1	134
Apr.	2	"	25	11	39	2	14	1	1	,	. <b></b>		93
"	9	**	31	12	35	5	22	9	3		1	1	119
**	16		30	17	53	6	14	5	4	• • • • •	2		131
••	23 30		24 37	21 25	49 52	6	8 19	5 1	1	1	·····2		115 140
May	30 7	• • •	23	29	47	4	16	3	1	1		1	125
May.	14	"	26	16	48	5	18	2			1	•	116
**	21	**	45	19	46	6	18	3	1		î		139
44	28	"	29	38	51	10	20	9	3	1	2		
June	4	"	20	24	39	8	15	1		1	1		109
"	11	"	25	17	40	9	14	3	1		1		110
**	18	"	25	21	47	5	15	1	1	1	1		116
- "	25	"	30	14	40	3	10	6	1	• • • • •	1		105
July	2		17	20	27 27	5 8	14	4	2 5	1	1 1	· · · · ·	90 107
**	9 16		32 21	10 26	45	8	19 9	3	2	1	4	1	11 9
•	10		21	20	40	1 9	9,	3	Z	1	4	1	11.8

Table 1. Continued—Showing the Number of Specimens Examined During the Year, Arranged by Weeks.

-			Dipht	Diphtheria.		Tuberculesis.		oid ver.	Malaria.		Miscella- neous.		
	<b>WE</b>	EK			!								
1	END	ING.	. [		;				1	i			
			Primary.	Secondary.	Primary.	Secondary.	Primary.	Secondary.	Primary.	Secondary.	Primary.	Secondary.	Totals.
July	23	1904	30	20	30	7	21	1	2	1	1	4	117
4	30	"	23	17	41	4	18	1	4	1	. <b></b>		109
Aug.	6	·	25	16	43	2	38	4	3	·	2	1	134
**	13	**	12	23	36	2	26	10	8		1		113
**	20	"	23	16	42	7	35	6	1		1		131
**	27	"	22	22	47	8	32		5	<b></b>	<b></b>	' · · · · ·	147
Sept.	3	<b>"</b> · · · ·	15	21	28	6	33	8	1		1		113
**	10	"	19	8	28	6	25	5	2	1	. <b></b>		94
**	17	"	30	22	27	7	32		5	1	1		130
**	24	**	27	14	36	3	21	6	1		5		113
44	30	"	27	24	34	3	21	5	2	1	2	1	120
Т	'otals	,	1743	1206	2052	292	1061	211	82	16	57	10	6730
G	rand	Totals,	294	19	23	44	127	72	9	8 <sup></sup>	6	7	6730

Table 2.—Showing the Number of Specimens Examined During the Year,
Arranged by Cities and Towns.

	Dip	hther	ia.		uber			pho ever		М	alar	ia.	Mis	eou		
TOWN		٠			٠		:									
	Primary.	Secondary	Total.	Primary.	Secondary	Total.	Primary.	Secondary	Total.	Primary.	Secondary	Total.	Primary.	Secondary	Total.	
delphia								· · · ·	1			: • •				1
llendale				1	٠	1	2		2		١				٠.	
llentown		!	1		ا ا	· • • •	' • • • •								٠.	1
andover	1		-	1		1		ļ	· • • •		• •				٠.	-
rlington					ا. • • ا		· • • •				• •			١		
asbury Park	23	10	33	40					4	6	4	10	2		2	
ashland				. 1	٠	1					١	· •			١	
tco	2		2			• • • •	• • • •			• •		• •		١	٠.	1
tlantic City	i	5	29			22	48	8	56	1		• •	2		2	1
tlantic Highlands	1 .						• • • •	• • •	,		••	• •	• •			
Bay Head		4	6	-	• • •	1			1		٠.	• •	• •	• •		
ayonne			• • • •				2				• •	• •	• •	• •	• •	
elmar		2	2		١٠٠٠,	• • • •	1			3	• •	3		١	1	
Selvidere	_	1 1		9	1	10	• • • •		· • • •	• •		• •			٠.	1
Berlin			2		]	• • • •		١	• • • •	'	٠.	٠.			٠.	
Sernardsville			7		1	. 7	3		4	1	• •	1	<u>.</u> ٠٠	• •	٠.	1
Severly		3	6	ł	٠		3	· • •	3	!		٠.	$ \cdot\cdot $	• •	٠.	! :
Blairstown		• • • • ;	· • • •	1	1	2	• • • •		• • • •		• •				٠.	1
Bloomfield	9	11	20	23	1	24	-	5	21	1	• •	1	٠.		٠.	1
Bloomingdale		· • • • ·		1	1	2				$ \cdots $		• •	• •	٠.	٠.	
Bloomsbury			3							$ \cdot \cdot $	٠.					
Boonton	1					6				'	٠.	٠.		٠.	٠.	1
Sordentown	_	8	12	20			5			1		1			٠.	1
Sound Brook	· • • •				- 1	4				!		• •			٠.	
Branchville	1				]	1	'				••	٠.			٠.	
Bridgeton		2	7		10	35	• • • •				• •	٠.	2		2	4
Burlington			1			, 9			• • • • •			٠.	• •	• •	٠.	1
Caldwell		1	4		6	17				10	••	10	$ \cdot\cdot $	• •	٠.	1
amden			46	138	19	157		33	108	• •	• •	• •	5			3
Cape May	4	1 ,	1	1	¦	1		• • •	· • · ·		٠.	٠.		٠.	٠.	
Carlstadt	1 -		3		1	14			3	1	• •	1	1	1	2	1
arteret	19	10,	29			1		1	• • • •	• •	• •	• •		٠.	٠.	1
edarville			• • • •		1	5				ļ	• •	• •		• •	٠.	i .
hatham			3				• • • •	٠٠٠	• • • •	٠.	• •	• •	• •		٠.	; ;
ayton		····i	1	. 2	•••	2	· • • •	٠٠٠.		.:					••	٠.
linton			• • • •	• • • •	· • • ·	• • • •	••••		٠٠٠٠ ا	1		1			. :	H
loster						4	2	1	3	· •						
Collingswood			11		• • •										٠.	
ranbury					• • •		١		`••••		• •	· ·			• •	
ranford			2	_			. 4		. 4	1		1	1		٠.	
ayton		1		i 1					' · • • •			١		١	١	İ

Table 2.—Showing the Number of Specimens Examined During the Year,
Arranged by Cities and Towns.—Continued.

	Dip	phthe	ria.		uber- llosis			pho ev:		M	alar	ia.	1	scel cour		
TOWN.	Primary.	Secondary.	Total.	Primary.	Secondary.	Total.	Primary.	Secondary.	Total.	Primary.	Secondary.	Totrl.	Primary.	Secondary.	otal,	Totals.
Delanco		00										H	104	1002	-	1 =
Dennisville												••	1		٠٠!	1
Dover				_	: : : :						••	•••			٠.	1
Dumont												• •				į
Dunellen			3	_			. <b>.</b>					•		• • !	• • !	,
East Orange						_	29			3	1	4				123
East Rutherford					'	6				1		1			!	7
Egg Harbor									1							i
Egg Harbor City	2	1	3	1				6		1 '				i.i		- 4
Elberon	1						1	1		1						
Elizabeth		540	968	92	16	108			41				1		1	111
Elmer					2			-					-	٠.,	-	
Englewood	1		45	ı			3	2	5				1		1	6
Fairview								i					- 1			
Fanwood	Į.		1		٠ ا					١						1
Farmingdale	1			l					1	1					• • •	
Flemington					2			•			1	5			•	2
Florence			l .	1		1			· <del>.</del>			Ŭ	; .		•	
Florham Park				3	1	4			. <b></b>		• •		١. ١			
Forked River													!		٠.	
Fort Lee	1														• •	
Franklin Furnace			_				_					•••	١٠٠			2
Freehold		l		12		15	3	1								1
Frenchtown	1			I								•			1	•
Garfield	1									i		• •	!	!	• •	
Georgetown										}		••			• •	
German Valley				1							::	9				
Gillette					1			٠	· · · · ·			-				
Gladstone		l	11	1				3	1	1		i			!	2
Gloucester City						6						•				-
Griggstown				ı		3		, · • •							٠٠!	
Hackensack	14			1		36			46						٠. ا	9
Hackettstown		l						2		1		1	i		1	1
Haddonfield	16	1	_											. 1		4
Hainesport	1															_
Haledon	1															
Hamburg										1						
Hamilton Square										1						
Hammonton					· !					١					Ĺ	
Harrison		<sub>.</sub>													!	
Hasbrouck Heights									3							
Hawthorne									•	1				, , , ,		

Table 2—Showing the Number of Specimens Examined During the Year,
Arranged by Cities and Towns.—Continued.

·	Đi	Diphtheria.			l'ube ulos	is.		pho		M	alar	ia.		sce.		
TOWN.	Primary.	Secondary.	Total.	Primary.	Secondary.	Total.	Primarv.	Secondary.	Total.	Primary.	Scendary.	Total.	Primary.	Secondary.	Total.	Totale
Hightstown	. 3		3	7		7					· ·				•••	1
Hoboken	3		3	28	1	29	8		8		٠.					4
Hopewell				1		1	2		2							١.
Inlaystown						• • • •	1		1		٠.,					Į
Irvington	7	4	11	5	3	8	1		1							2
Jersey City	18	1	19	85	7	92	19	4	23							13
Junstion	1		1					]		٠.		٠.				1
Kearney			]	1		1										
Keyport	3		3	10	1	11	2	[]	2		• •					1
Lakehurst	1		1							٠.						
Lakewood	11	7	18	2		2							:.			2
Lamberton	1		1													
Lambertville				.4		4	1		1				1		1	
Lawrenceville	5		5	3	1	4	1		1	5	1	6		٠.		1
Layton	1		1				2		2							۱ :
Leesburg				2		2						]	]			:
Lodi	2	1	3	2		2	3	2	5							10
Long Branch				22	2	24	20	4	24		1	1				4
Lyons Farms	1		1	1		1										
Madison	13	7	20	7	2	9	3		3							3
Magnolia	1		1													
Maplewood							6	1	7							١ ١
Matawan				14		14										1
Mays Landing	1		1	5	1	6	3		3							1
Maywood							2		2							
Medford				1		1	1	[ <u>]</u>	1							
Mendham	8	2	10	. <b></b> .			2	1	3							1:
Merchantville	2	1	3	2	1	3	1	l l	1							
Metuchen	20	5	25	6		6	7	3	10							4
Milford				1		1					١					_
Millburn	8	1	9							1	1	1	4		4	1
Milltown.		. <b></b> .		1		1	2	l l	2		١ا					
Mill <del>v</del> ille	5		5	14	4	18		ll			١١					2
Monmouth Beach							1		1							-
Montelair		2	2	14	5	19	2		2							2
Moorestown	4	. 1	5	10	2	12	16	4	20							3
Morris Plains.	3		3				2	1	3							
Morristown.	16	3	19	20	2	22	23		28	2		2				7
Mount Arlington		l					2		3	1	1	2				Ι,
Mount Holly	10	2	12	11		11		ا ً ا	ll		اً . ا					2
Mullica Hill		l		1		1	2		2		l ::					Ι.
Netcong	4	l '	4	1		1	1		1							
Newark.	-	1	l	8	1	9	l			1	`	i	- 1			1
Newark																

Table 2.—Showing the Number of Specimens Examined During the Year,
Arranged by Cities and Towns.—Continued.

	Dig	hthe	ria,		uber ilosis			phoi ever		М	alar	ia.		sce.	lla- 18,	 
TOWN.	Primary.	Secondary.	Total.	Primary.	Secondary.	Total.	Primary.	Secondary.	Total.	Primary.	Secondary.	Total.	Primary.	Secondary.	Total.	Totals.
New Market	1			1		2				1			1		1	2
Newton	13	11	24	15	3	18	3	2	5	<b> </b>		1	١		1	48
North Branch	1		1	1		1							<b> </b>		١	2
North Plainfield	1		1				l	l	١	١		١	١		١	1
Nutley	3	3	6	. <b></b> .				l	l	١	l	۱	l	١	١	6
Ocean City.	l	l	[ <u>]</u>		<b> </b>	١	1	l	1		l	١	١.,	١		1
Ocean Grove	<b> </b>	l	l l	1		1	l	l	l	١.,	i			١	I	1
Oceanic.	l	l		1	l	1	l	l	l	١.,	١	١	I	١		1
Ogdensburg	1		1	l		١	l	l	l	١	1	١	1.	١	١.:	1
Old Bridge	2		2											l	I	2
Orange	20		36	66	17	83	46	14	60	i	i		l.:	I		180
Oxford	2		2							1				I		2
Palmyra				1	ļ,	1	1		1	I			::		I	2
Park Ridge	i		1	2	1	3			3			i	ï	١	2	
Parsippany	-		l	ī	ļ <u>-</u>	1		l	Ĭ	1			ļī	1	١	1
Passaic	56	5		88			1		63		::		١	١	l::	228
Paterson	9	_		86	4	90		1				3	::	١	3	
Pedricktown	1 "	١		1	_	1	1	~	1	"	1	l -	::	1	-	1
Pemberton	4		4	*		i ^									• •	4
Penn Grove	5		5		1										· · ·	5
Pennsville	٠		٥	····i		1										1
Perth Amboy		••••		17	7	18				1					• •	20
Phillipsburg	2		2	'i	•	1			ļ						· · ·	3
Pitman Grove	1	ļ	_	3	• • • •	3	ı i		1						• •	4
	208	180	388	93			_	6			9			١٠٠	۱۰۰	_
	208	1	300	5	1	107			1		ש				• •	541
Pleasantville	2			1 -	• • •				3				١٠٠	· ·	• •	10
Point Pleasant		• • • •		:		:	4		4						١٠٠	4
Pompton Lakes				1	•••	1	1					·:	·:	::		1
Port Norris	2	1	2	2	•••	2	1		3			2	1	3	1	10
Princeton	27			8		11					• •	• •	· •		• •	79
Rahway	34			31		34			56	•	• •			···	•••	127
Ramsey	7	5	12	9	2	11	2				• •	1		١٠٠		25
Raritan	••••	• • • •	• • • •	1		1	• • • •		• • • •					••		1
Red Bank	2	• • • •	2	36	6	42	4	• • •	4			• •				48
Ridgefield	1		1	1	• • •	1				1					• •	2
Ridgewood	5	1	6	11	• • •	11	3		3	1		••				20
Ringoes.	1		1	1		1			• • • •			••			١	2
Riverside			• • • •	6	•••	6	••••		• • • •			••		••	٠.	6
Riverton	1	1	2	5	3	8	1	2	3			• •		١٠٠	<b> </b> • •	14
Rockaway	41	2	43	15	4	19	4		4	1		1	3		3	70
Rotelle	9	4	13	3	• • • •	3	3	3								19
Roselle Park	2		2	3	3		6							<b> </b>	١	8
Rutherford	11	4	15	21		21	11		11					١		47
Salem	7		7	19	3	22	3		3	2		2	1	4	5	39
Sayreville				- 1	i	- 1	6	1	7	1	1		ı	1	1	7

Table 2.—Showing the Number of Specimens Examined During the Year,
Arranged by Cities and Towns.—Continued.

	Dip	hthe	<del></del> -		iber losis			phoi ever		M	alar	ia,	Mis	scel		
TOWN.	Primary.	Secondary.	Total.	Primary.	Secondary.	Total.	Primery.	Secondary.	Total.	Primary.	Secondary.	Total.	Primary.	Secondary.	Total.	Totals.
Shiloh. Somerville South Amboy South Branch South Orange South River. Spotswood Springfield Stanhope Stillwater. Stirling. Succasunna Summit. Sussex. Swedesboro Toms River Trenton. Tuckahoe. Upper Montelair. Ventnor	11  7 1 1 2 2 1 5 1 17 2 	2 2 1 1 5 9	13 2 3 2 1 10 1 26 2  1 184	21 1 74 5  2 2 17 	4 1 2 2 2	3 21 1 1 78 6  2 2 2 19  3 8 8 270 1 3	2 1  2 4 18	 1	31 6 3 1 25		6	20				3 51 1 118 13 2 7 5 1 15 7 70 2 3 9 701 1
Vineland. Washington Weehawken Town of Union), (Union Hill),		2	4 1 25	37 10 29	6	43 10 34	26 1	4	30						•••	77 12 59
Wenonah Westfield West Hoboken. West New York West Orange Westville Westwood. Wharton. Whippany White House Station. Wilburtha. Windsor Woodbridge. Woodbury Woodstown	 4	14	25 4 2 249	3 19 18 4 5 6 3 1  1  18 5	1   3 2	4 5 7 3 1  1 	 5 1 6		5 1 3  5 1 6	4		4				3 50 22 4 9 7 8 2 14 1 1 1 3 275 7 6
Blank	3	••••	3	3	• • •	3	1061	211	1272	82	16	98	57	<u></u>		6730

In Table 2 will be found a summary of the examinations made during the year, arranged by cities and towns. This table serves to show the extent and distribution of the work throughout the State, no less than 214 cities and towns being represented. An inspection of the figures, however, will reveal the fact that the numbers of specimens coming to the laboratory from the various towns bear little or no relation to the population of those towns. If proper advantage was taken of the facilities for diagnosis offered by the laboratory, the number of specimens received from the larger cities at least should show some sort of a relationship to the population, unless epidemics of more than usual severity have occurred, which is not the case this year. It therefore follows that the physicians in certain communities make much more use of the laboratory than do those from other localities. It is believed that this is due largely to the efforts or lack of interest shown by local boards of health. Where these bodies are efficient in the supervision and control of contagious diseases, especially diphtheria, physicians are forced to confirm their clinical findings by sending specimens to the laboratory; where local boards of health are negligent, the incentive to confirm or disprove a clinical diagnosis in a case of diphtheria is not so great, and carelessness, which in many cases has most serious effects on the patients, is encouraged. This is especially true when specimens taken to determine the absence of diphtheria bacili in the throat of a patient after apparent recovery, are considered. The number of specimens of this kind received at the laboratory is by no means as large as it should be; in very many cases no specimen being sent except the one to confirm the diagnosis of the physician. The control of diphtheria throughout the State would be much more satisfactory, and the actual number of cases per year would be much smaller than it is at present, if more care were taken to protect the public from unrestrained intercourse with convalescents from diphtheria, especially children, who are still carrying the specific causative organisms in the throat or nose, or both.

The number of specimens each year since the laboratory has been in operation is shown in Table III.

Table 3.—Showing the Number of Specimens of Each Kind Examined Since the Laboratory was Organized,

	1896-97	1898	1899	1900	1901	1902	1903	1904
Diphtheria	627	600	577	974	1864	1487	2090	2949
Tuberculosis	253	516	766	892	1211	1467	1853	2344
Typhoid Fever	27	175	339	431	739	884	1333	1272
Malaria	·	4	*	53	113	196	151	98
Miscellaneous	7	18	*	30	28	55	132	67
Totals	914	1313	1682	2380	3955	4039	5559	6730

<sup>\*</sup> The number of these specimens has not been recorded and is therefore omitted, Increase of specimens over 1903, 21.2 per cent.

This table shows very clearly the rapid growth of this department of the laboratory since its beginning eight years ago. No more convincing demonstration could be made of the usefulness of the department to the physician, and through him to the public. The number of specimens examined each year steadily increases, nor is there any reason to suppose that this large increase will not continue for some years, although it is to be expected that, when the time arrives when all or almost all physicians thoroughout the State make use of the laboratory regularly, the rate of increase will diminish until it runs approximately parallel with the increase of population.

### LIST OF REPOSITORIES FOR MAILING CASES.

Town.	Repository.	Mail Leaves.
Allentown	e's Pharmacy	4.00 p. m.
AllowayDr. W.		
AndoverDr. J. C	. Clark	· · · · · · · · · · · · · · · · · · ·
AnnandaleDr. W.	E. Berkaw	
ArlingtonDr. J. A	L. Exton	
	A. Strasser	
	J. LaRiew	
Asbury. ParkBoard	of Health	3.00 p. m.
Atlantic CityBoard	of Health	
	City Hospital	
	uskaden, druuggist	
	Deakyne, druggist	
	Ridgway, druggist	
	Vescott, druggist	
Atlantic HighlandsAnchor		
BakersvilleA. R. V	ickers	
Basking RidgeDr. F. (	C. Jones	3.00 p. m.
Bay HeadDr. W.		
BayonneBayonne	Hospital	2.00 p. m.
	Estrange, druggist	
	H. Landell	
BellevilleA. H. O		
	f Health	
"Seaside	Pharmacy	
BelvidereFaust B	ros., druggists	
	. <b>J.</b> Burd	
	f Health	
"	Miller, druggist	
BernardsvilleDr. J. M		
	tphin	
BeverlyDr. A. V		
	erts	
BlairstownDr. W. (		
	Keyler, druggist	
"	Wood, druggist	• • • • • • • • • • • • • • • • • • • •

Town.	Repository.	Mail Leaves.
Bloomsbury	.Dr. E. L. Reigle.	•• ••••••••
	.Dr. Jno. L. Taylor	
• • • • • • • • • • • • • • • • • • • •	.Dr. Cuthbert Wigg	
••••••	.Dr. C. Decker	
* *************************************	.Dr. A. E. Carpenter	
	.Dr. W. H. Shipps	
*********	. Paul Traub, druggist	
• • • • • • • •	.Woolley & Fitzgerald, druggists	
	.Chas. L. Manning, druggist	
	Lloyd & McNabb, druggists	
	.Dr. E. S. Dalrymple	
	Dr. J. C. Price	
_	.Board of Health	
•	Albert S. Elwell, druggist	
	. Chas. F. Dare & Son, druggists	
	Dr. Jno. H. Moore	
Burlington	.Jno. W. Davis, druggist	
**	.H. B. Weaver, druggist	
_	. McCue's drug store	
Caldwell	.Dr. E. Ę. ьond	
"	$\mathbf{W}$ m. N. Hasler	
Califon	.T. Miller, druggist	
Camden	.Cooper Hospital	3.00 p. m.
	.Barrett Bros., druggists	
	.Dr. J. S. Baer	
**	.Geo. M. Beringer, druggist	
"	.Dr. R. I. Haines	
	.F. S. Macpherson, druggist	
	.Geo. J. Pechin, druggist	
"	.Wm. P. Weiser, druggist	" "
	.Dr. A. M. Hand	
	.Willets Corson, druggist	
Calrstadt	.A. Niederer, druggist	
• • • • • • • • • • • • • • • • • • • •	.Dr. E. F. Sickenberger	
	.Board of Health	
	.Dr. W. P. Glendon	
Chatham		3.00 p. m.
	.Dr. Pollard	
"	.Dr. Geo. M. Swain	"
	.Dr. W. J. Wolfe	" "
Chester	.Dr. Harris Day	1.00 p. m.
Clayton	.Dr. C. F. Fisler	
Clinton	.W. H. Baker, druggist	• • • • • • • • • • • • • • • • • • • •
Closter	.Dr. L. B. Parsell	
_	.Wm. A. Chamberlain, druggist	
	.Wells & Son, druggists	
Cranford	.Jno. Marien, druggist	••• •••••••

Town.	Repository.	Mail Leaves.
Crosswicks	Dr. C. L. Dey	• • • • • • • • • • • • • • • • • • • •
Dayton	Edgar Carroll, druggist	
Deckertown	.W. J. Rinkel, druggist	
Deerfield	.Dr. E. S. Goudy	
	.Dr. L. B. Phillips	
	.Dr. H. K. Weiler	
	.Robert Killgore, druggist	
Dumont	.Dr. J. E. Pratt	
Dunellen	.Dr. P. W. Brakeley	10.00 a.m.
	J. C. Thatcher, druggist	
	Garrett Byrnes, druggist	
	.F. L. Fieger, druggist	
"	.Gillbard's Drug Store	
East Rutherford	.Board of Health	• • • • • • • • • • • • • • • • • • • •
Eatontown	Edward Van Buskirk, druggist	
· Egg Harbor City	Board of Health	• • • • • • • • • • • • • • • • • • • •
	Board of Health	
	.Elizabeth General Hospital	
	.Richard Frohwein, druggist	
	.Geo. J. Martin, druggist	
	.Oliver & Drake, druggists	
	.W. R. Richart, druggist	
	.Fred M. Egger, druggist	
	.Wm. H. Reibel, druggist	
Elmer	Board of Health	12.00 m.
	.L. Rockefe.ler Co., druggists	
	Reeder Bros. & Schneider, druggists	
Englishtown	Dr. W. E. Anderson	5.00 p. m.
	.Dr. F. W. Westcott	
	W. R. Kinmouth	
"	.C. A. Palmer	• • • • • • • • • • • •
	.F. C. Burk, druggist	
	.Board of Health	
	.Dr. Max Wyler	
	Dr. C. M. Dunning	
Freehold	.Duryee & Conover, druggists	3.30 p. m.
Frenchtown	E. M. Roche, druggist	
German Valley	.Dr. C. N. Miller	• • • • • • • • • • • • • • • • • • • •
	.Dr. M. C. Smalley	
	A. Trenchard, druggist	
	Geo. B. Beakey, druggist	
Gloucester City	Atlantic Pharmacy	
"	.W. S. Hillard	• • • • • • • • • • • • • • • • • • • •
Guttenberg	.Gorden's Pharmacy	• • • • • • • • • • • • • • • • • • • •
	.Hackensack Hospital	
	.Dr. D. St. John	
******		

Town.	Repository.	Mail Leaves.
	Eugene A. McFadden, druggist	" "
***	Adam's Pharmacy	"
Hackettstown	C. V. Rea, druggist	12.30 p. m.
**	Dr. L. Farrow	
Haddonfield	R. Williard, drüggist	11.00 a. m.
Hainesport	Dr. W. C. Parry	
Hamburg	Dr. J. G. Coleman	
Hammonton	Dr. A. I. Hunt	
Hamilton Square	Board of Health	12.00 m.
Harrison	Squire's Pharmacy	1.00 p. m.
	Dr. R. C. Lumsden	
	W. C. Alpaugh, druggist	
Hightstown	D. H. Cunningham, druggist	
Hoboken	Dr. H. B. Rue	2.30 p. m.
	Board of Health	
	Wm. Kamlah, druggist	"
	A. Schmidt, druggist	
**	Victor Schmidt & Co., druggists	"
"	Chas. Sunkel, druggist	"
	Geo. E. Pierson, druggist	
Imlaystown	Dr. F. C. Price	
	Dr. A. C. Christian	
	Harry McDavitt	
	State Reform School	
Jersey City	Maxwell Abernathy, druggist	• • • • • • • • • • • • • • • • • • • •
"	L. E. Carpenter, druggist	• • • • • • • • • • • • • • • • • • • •
	Frederick W. Frey, druggist	
	Jno. C. Gallagher, druggist	•••
	Geo. White, druggist	
	A. Tod, druggist	
	H. Smellie, health inspector	
	E. T. N. Stine, druggist	
	Frank O. Cole, druggist	
•	Henry J. Lohman	
•	Wm. Buchbinder, druggist	
•	Lyons & Zieggler, druggists	-
	B. J. Bache, druggist	
	к. E. Wilhelm, druggist	· · · · <del>-</del> · · · ·
	Herman A. Bruckner, druggist	
	Chas. H. Rogers, druggist	
	Herman Roder, druggist	
	Chas. Zoeller, druggist	• • • • • • • • • • • • • • • • • • • •
•	Herman W. Mayer, druggist	•••
"	James Foulke, druggist	•••
' "	Lischke Bros., druggists	• • • • • • • • • • • • • • • • • • • •
	Dr. Hooper	

Town.	Repository.	Mail Leaves.
Keyport	W. E. Warn, druggist	***
	Chas. A. Bye, druggist	
	S. W. Cochran & Co., druggists	
	Dr. E. K. Fee	
	Dr. M. D. Hughes	
	Dr. S. E. Ewing	
	S. Austin Reilly, druggist	
	D. A. Himadi, druggist	
•	Board of Health	-
	Dr. W. J. Smythe	
******	Dr. Jno. W. Bennett	
	Monmouth Memorial Hospital	
	J. Rothenberg & Co., druggists	
46	Jno. T. Britton, druggist	" "
Lumberton	Prickett's Pharmacy	• • • • • • • • • • • • • • • •
Madison	Wm. F. Brown, druggist	3.00 r. m.
	W. H. Larison, druggist	
	Dr. F. H. Seward	
	Board of Health	
	Dr. Nathan Ervin	
	Board of Health	
	.Dr. H. C. James	
	Henry P. Thorn, druggist	
	Geo. Robinson, druggist	
	J. W. Kohlerman, druggist	
	Board of Health	
	Dr. W. V. McKenzie	
		• • •
	Dr. M. S. Simpson	
	Dr. C. H. Darmon	
	Millburn Pharmacy	
	Geo. W. Weber, druggist	
	.Smith & Rogers, druggists	
	David H. Baldwin	
	.Loeser's Pharmacy	" "
"	.W. D. Johnson, druggist	" "
Moorestown	.Board of Health	1.00 p. m.
Morris Plains	State Hospital	3.00 p. m.
	H. M. Smith, druggist	
	E. B. Jones, druggist	
	.Dr. S. F. Ashcraft	
	.Dr. T. W. Corwin	
	J. H. Van Duerzen, druggist	
		=
• • • • • • •	.Wm. Rust & Sons, druggists	• •
<del>-</del>	Dr. S. E. Robinson	
Newton	Board of Health	1.30 p. m.
North Plainfield	.Board of Health	-

Town.	Repository.	Mail Leaves.
Nutley	Henry T. Lefferts, druggist	
Ocean City	Bourse Pharmacy	
Ogdensburg	Dr. L. C. Burd	
Old Bridge	Dr. I. C. Crandall	
Orange	Orange Memorial Hospital	3.3) p. m.
	Abram Master	" "
	L. E. Fiesler, druggist	" "
66	S. V. Beegle, druggist	"
Oxford	James A. Allen, druggist	
Palmyra	Dr. L. L. Sharp	
Park Ridge	Dr. H. C. Neer	
Parsippany	Dr. E. P. Cooper	
Passaic	Carroll Drug Co	
	St. Mary's Hospital	
**	Berger & Richter, druggists	
"	Dr. H. C. Reynolds	
	Otto Lane, druggist	
	Van Riper & Co., druggists	
	Board of Health	
"	Dr. W. H. Lowe	"
"	Dr. H. S. Willard	"
	Gurdon E. Pellett, druggist	
	Robbin's Pharmacy	
	Board of Healtth	
•	Dr. J. H. Griffith	
	Dr. L. N. Slaughter	
	Board of Health	
_	Dr. W. H. Murray	
	Muhlenberg Hospital	
	Dr. J. H. Sorth, Jr.	
	Dr. J. C. Morgan	
•	Dr. S. T. Day.	
	Dr. H. W. Kice	· · · · · · · · · · · · · · · · · · ·
	Marsh & Burke, druggists	
	W. L. Briner, druggist	•
	Geo. F. Brown, druggist	
<u> </u>	New Jersey Reformatory	
	Vanderbeek Drug Co	
	Board of Health	
	Chas. A. Minton & Co., druggists	
	Dr. Henry C. Elsing	
	H. A. Tice, druggist	
	Dr. W. L. Vroom	
Divorcido	Warren C. Pine, druggist	4.00
Dimenten	De Alex Money To	4.00 p. m.
	Dr. Alex. Marcy, Jr	
Kockaway	Dr. Geo. H. Foster	2.30 p. m.

Town.	Repository.	Mail Leaves.
	r. F. W. Flagge	
	y W. Rewalt. druggist	
	oard of Health	
	lem Pharmacy	
	pesser's Pharmacy	
	o. E. Davis, druggist	
	ea Bright Pharmacy	
	r. E. G. Hummel	
	mes N. Case, druggist	•
	r. E. V. Meacham	_
	r. J. T. Robinson	
	r. H. A. Pulsford	
	rs. J. A. Griffing, druggist	
	s. W. Gladhill, druggist	
	r. S. E. Selover	
D	r. F. W. Bissett	
	r. J. A. Stites	
•	H. Hills, druggist	-
	r. Wm. N. Trout	
	elden's Pharmacy	
	r. F. W. Curtis	
	r. N. H. Adsit	
	7. T. Green, druggist	
	. H. Rogers, druggist	• • • •
	r. H. D. Van Gaasbeek uest & Guest, druggists	
	nest & Guest, druggists r. Frank Brouwer	
	r. R. R. Jones	
•	gust Fr <b>e</b> nk, druggist	
(Weehawken.)	ggust frank, druggist	••••
•	oard of Health	
	ercer Hospital	
	eo. W. McGuire, druggist	
	oo. J. Strasser, druggist	
	imes S. Mathis, druggist	
	ewis W. Long, druggist	
	. D. Laird, druggist	
	S. Holcombe, druggist	
	. S. Holcombe, druggist	
	r. J. S. Douglass	
	eeve's Pharmacy	
	H. Laubenheimer	
	erona Pharmacy	
	rank S. Hilliard, druggist	
	. M. Pierson, druggist	
WanaqueD	r. D. N. Shippee	· · · · · · · · · · · · · · · · · · ·

Town.	Repository.	Mail Leaves.
WashingtonDr. Ch	as. N. Williams	1.00 p. m.
Weehawken HeightsWm. K	Cyvitz, druggist	
WestfieldFrutch	ey & Hathaway, druggists	2.30 p. m.
"Bayard	l Pharmacy	" "
West HobokenA. Gira	ay, druggist	· · · · · · · · · · · · · · · · · · ·
"Frank	H. Eckert, druggist	
"Joseph	Parentini, druggist	
WestwoodDr. Th	eodore E. Townsend	
WhippanyDr. H.	S. Wheeler	
WilliamstownDr. J.	G. Edwards	
WindsorDr. Ge		
WoodbridgeBoard	of Health	,, ,,
	W. Hoagland	
"Dr. I. 7	r. Spencer	12.30 p. m.
WoodburyJ. W. 1	Merritt, druggist	
WoodstownBuzby's	s Pharmacy	
Woodstown	Guest, druggist	,, ,,

Outfits for sending specimens from suspected cases of diphtheria, pulmonary tuberculosis, typhoid fever and malaria are kept at the repositories named in the above list and may be obtained from them on request. The figures stating the time when the mails leave refer to the hours when the mails close at the post-office. To insure transportation by the mails given, it is advisable that specimens be left at the post-office at least fifteen minutes before the mail closes. It sometimes happens that mailing cases are mistaken by postmasters of local offices for third or fourth-class mail matter and postage is charged at these rates. In order to insure speedy transportation, it is desirable that the attention of the postmaster be called to the fact that postage on these packages is paid at letter rates, and they should therefore be forwarded with first-class mail.

Examination of water from public and private water supplies.—For some years the feasibility of making periodic analyses of the public water supplies throughout the State has been considered and an attempt has been made to begin this work, but owing to lack of time and to the difficulty of getting the samples collected regularly, the work has been very incomplete. No investigation can be of more importance than this, and the necessity for it is becoming more and more acute in this State on account of its rapidly increasing density of population. Increased facilities for the performance of these analyses and especially for the proper collection of the necessary samples should certainly be provided.

Results of the analyses made during the year are given in the following table:

# Results of Analyses of Samples of Water from Certain City Supplies. Parts Per Million.

					`						•		NITE	OGEN
1	.00	I	DATE	<b>.</b>	LOCALITY.	Color,	Odor, cold.	Odor, hot.	Turbidity.	Total solids,	Loss on ignition,	Mineral residue.	As ammonia.	By alkaline Permanganate.
c	3238	Feb.	25,		Beverly	0	0	1.e			114.0		1	.015
C	3239		25	**	_ "		1 g	3.v		122.0			1.	.348
E	628		27	"	Canoe Brook	15	0	0	20	132.0 84.0			1	.042
E		Nov.	9	1903	Helmetta	8	' · · · ·	1.v 3.v	0	84.0			( ,	.058
E	610 612		4	**	Hoboken	32		1. v	2	83.0	1			.128
E		Jan.	5.	1904	"	30	1.v	3. v	10	73.0	13.0	60.0	.017	
Ē		Mar.	3	"	"	28	1.v	1.v	15	68.0	30.0	38.0	.016	.138
E		Apr.	25	44	**	22	0	1.v	3	64.0	26.0	38.0	.026	.120
$\mathbf{E}$	666	June	1	**	**	30	1.v	4. v	5	85.5			.018	.176
E	780	Oct.	22	**	*		1.v	0	3	103.0		69.0		.142
$\mathbf{E}$		Nov.	4		Jersey City	35		1.v	3	70.0		• • • • •	1 1	.142
$\mathbf{E}$		Jan.	5,	1904		27	1.v	2. v	15	57.0	21.0	36.0		.146
E		Mar.	4	"		30	2. v	3.v	10	57.0	1 :	32.0		.100
E		Apr.	25	"		25	0	1.v	2	58.0		38.0	1 -	.118
E		June	1			35	2.v	4.v 2.v	5 3	83.5 90.0	1 .	55.5 59.0		.096
E		Oct. Dec.	22 1	44	Lambertville	30	1.v	2. v 1. e	2	98.0	1 .	72.0		.112
E		July.	29		Moorestown	20	0	1.v	2	70.0		26.0	1	.094
E		Aug.	28	1902		50	1. v	3. v		104.0		70.0		.010
E		Nov.	24	1903	Mount Holly	13		norm.	3	39.0	1		1 1	.038
Ē	611		9		New Brunswick	66		2 e	7	65.0				.166
E	616	1	19	44	"	64		1.v	2	48.0			.006	.088
E		Jan.	19	1904	44	32	1.v	3. v	20	48.0	20.5	27.5	.054	.116
E	632	Feb.	17	**	**	35	1.⊽	3.▼	30			28.0		.140
E	681	June	30	**	".	80	1.7	2. ▼	1	58.0		26.0		.156
${f E}$		Aug.	12	**	••	70	1.v	2. v	18	60.0		29.0		.170
E		Mar.	10	**		0	0	1 e	0	99.0		70.0	1 1	.012
E		June	20		Rahway	28	0	0		172.0		134.0		.160
E		Feb.	25	**	Runyon	20	0	2 е	0	39.0 192.0		27.0 126.0		.004
E		Oct.	25	"	Sussex	20	1 e	1 e	2	192.0	00.0	120.0		.118
A E	700	July	16 21	44	Toms River		0	0	2					.036
E		Sept.	21	**	Tuckerton		1.7	2 v	l		[			.098
E	724		21	**	**	l l	1.v	1 v			l i			.074
E	661		12		Vineland					149.0	70.0	79.0	7620	
Ē		Nov.	12	1903		12		1 e					.008	

## Results of Analyses of Samples of Water from Certain City Supplies. Parts Per Million,

NITE	GEN.							
As nitrites.	As nitrates,	Chlorine.	Alkalinity.	Hardness.	Iron.	Bacteria per com.	B. Coli communis present in	APPEARANCE ON IGNITION.
.000	5.600	20.7		!	.17		none	White fumes.
.008	.380	5.25		29.9	.13		10cc.	W MIOO Tamesi
.002	.200	2.5	67.	75.7	.10	[	none	Slight darkening
.000	2.700	5.2	2.0	19.5	4.40		none	,
.002	2.200	12.6	0	22.0	.10	l	l. <b></b>	
.001	.000	3.2	40.0	40.5	.40		none	
.002	.400	3.6	45	46.3	l	1	none	Much darkening.
.002	.200	3.2	27	31.2	.32		none	Some darkening.
.0015	.120	2.1	30	33.8	.35		none	Slight darkening.
.000	.000	3.0	42	44.3	.45		none	Some blackening.
.000	.800	4.7	47	• • • • • •	.45		1cc.	Some blackening.
.002	.000	2.6	28.0	30.0	.60		none	
.0015	.300	3.0	21	23.7	ļ		none	Considerable blackening
.0015		2.2	17	27.3			none	Some darkening.
.003	.120	2.0	19	23.4	.35		none	Some darkening.
.000	.000	2.8	33	36.4	.50		none	Some blackening.
.004	.800	3.6	45	· • · · · ·			none,	SIL PAINT
.004	.900	6.0		10.0		700	10	Slightly brown.
.003	2.400 .600	3.8 8.0	7. 14	18.2 28.6	2.00	730	10cc.	Slight darkening. Considerable darkening.
.010	.050	2.0	3.0	12.5	.25		none.	Considerable darkening
.001	.400	4.0	5.0	11.0	1.20		none.	
.002	.000	4.8	7.0	15.5	.95		none	
.0015	.520	4.8	0	11.1	.15		none	Much darkening.
.0015		3.8	2.0	4.8	.60	240	none	Some darkening.
.001	.120	3.2	7.0	7.9	1.30	1200	none	Much blackening
.001	.160	3.6	6.	6.4	1.00	3200	lcc.	Some darkening.
.000	.460	2.1		-51.4	0		none	
.005	.600	8.7	67	80.0	.50		none	Some darkening.
.002	.000	1.9	30	32.5	2.65		none	No darkening.
.001	.000	17.0	92		1.10		1cc	Blackened.
.000	.000	2.0		• • • • • •	4.00		none	
.0015	.800	6.0	1.0		4.00		none	
.000	.000	8.0			ļ		10cc	
.000	.000	8.0					none	
.200	2.200	41.0					0.1cc,	Much darkening.
.001	1.650	4.0	17.0	21.0	.60		none	

Table 5.—Results of Analyses of Samples of Water Taken From Private Supplies.

Parts Per Million.

		B. coli communis present in.	10cc.			none												:	none	lee.	:	166.	10cc.	:
		Chlorine	11.0	80.23	4.2	21.6	46.0	122.5	0.6	7.6	1.8	65.0	89.0	5.0	4.0	1560.0		41.5	22.0	25.0	7.0	7.8	1.5	9.3
		.sotititi e.A.	4.000	.560	8	1.840	4.800	40.800	8.000	.800	.120	.012	8.	.400	.160	:		32.000	12.800	14.000	1.800	5.200	96.	3.200
	GEN	As Nitrites.	.002	.0035	000	.00	.021	.004	.002	.0035	.0015	.010	.005	900.	8	.015		800.	.002	.021	.002	90.	000	90.
	NITROGEN	By Alkaline Permangante.	.072	, 800	8.	.030	920.	880.	.064	.114	.028	.082	020.	980	.028	too high	to read	.130	.024	.025	.022	.034	.182	020.
		· sinnommA sA	900.	<u>8</u>	90.	800.	.002	.020	.018	.044	<u>00</u> .	920.	.046	.002	.010	too high	to read	.018	900.	.318	900.	.004	990.	806
-		Odor, hot.	1 w	:	0	1 0	0	1 e	4 W	3 4	0	0	1 0	2 6	1 0	3 8		2 d	1 v	0	normal	0	1 w	1 0
2		Odor, cold.	0	0	0	0	0		2 ₩	1 v	0	0	0	o, 73	0	3 8	•		0	0		0	0	
		LOCALITY	904 Allwood	Alpha.	:	Asbury Park	Belmar	Beverly		Flemington	Hamilton Township	Hawthorne		:	=			Irvington	1904 "	Kearney	903 Lambertville	Lawrenceville	Moorestown	North Plainfield
		Ĕ	2, 1904	: &	; 82	: 0	: 81	13, 1903	3, 1904	., 26,	=	:	:	:	;	:				: 8	_	20, 1904		7, 1903
		DATE	Aug.	650 Apr. 2		713 Aug. 1																	659 Aug. 2	Nov.
		No.				E 713	_		E 778		E 642	E 731	E 732		E 734								E 629	

Table 5,-Continued-Results of Analyses of Samples of Water Taken From Private Supplies.

!	8	B. coli communi present in.	one	Occ.	.00	S	900	ego	0ec.	one	:00	.00	900	Oee.	100.	:	99	none	.00	:	опе	one	99	100.		100.		
		Chlorine.	1	4.5												•				<u>:</u>					:	_	8.8	
:  -		As Mitrites.	904.	000.	1.200	12.160	1.100	1.600	1.600	1.320	10.000	15.000	2.240	12.000	11.200		14.400	8.	4.000	2.500	.120	00.	1.080	4.000	1.800	1.600	.350	
	· Z	. sestiniti aA	90.	000	.018	.032	100	080	000	90.	.0015	910.	80.	.042	910		.010	.002	.0315	.013	100	80.	.003	900	.00	00.	200.	
Number	LINEAGUA	As Alkaline Permagante.	.018	.046	.752	.396	<b>7</b> 8.	.100	060	40.	.062	880.	.016	.172	.172		86.	.056	. 226	120	040	.022	.059	.062	.040	010	.114	
		As Ammenia.	.022	00.	.332	.266	.003	.138	890.	<b>4</b> 00.	00.	.024	00.	900.	too high	to read	.016	.002	920.	980.	8	<b>8</b> 0.	.026	.016	800.	400.	900	•
•		Odor, cold.	0	0	-	H H	0	•	•	16		:	2 e	0	•		1 4	•	1 v	off.	1 v	:	•	2 0	8	2 soapy	Grassy	
		Odor, hot.	1 4		4 0	0	•	•	0	•	:::::::::::::::::::::::::::::::::::::::	:	•	10	•		•	•	•	:	0	•				•		
		LOCALITY.	904 Oxford Township.		Passaic	:	:	:	Paterson	Point Pleasant	Princeton	Randolph Township	Raritan Township	Reaville	Richfield	•		Riverdale	South Branch	South Orange	904 Sussex	:		Trenton	:	:	Vineland	
		ei	1904	:	:	:	:	:	:	:	:	:	;	:	:		:	:	:	1903	1904		:	1903	:	1904	1903	
		DATE.	13,			22				. 12			6	∞ .:			01	21				8	_		_		17,	
_			30 Oct.	:	648 Mar.	:	:	2 June	718 Aug.	7 Aug	8 June	8 Aug	2 May	740 Sept.	3 Aug.			O Jan.	776 Oct.	7 Dec.	1936 May	June	:	623 Dec.	:	777 Oct.	7 Dec.	
11		Х o.	١ <u>٣</u>	4	3	652	653	67	718	Š	88	Š	99	74	203		2	3	2	627	8	22	8	8	624	E	607	

As was to be expected, most of these waters were found to be polluted. It should be evident to every intelligent person that wells located in thickly settled districts and surrounded by privy vaults and cesspools are particularly liable to pollution of a dangerous character. Most of the towns and cities of the State have public water supplies which are far superior to and much safer than ordinary city well water. The majority of the analyses referred to were made in compliance with requests from officers or local boards of health who were desirous of causing the use of the wells to be abandoned if found polluted. The fact that requests for examinations of this sort are rapidly increasing is an indication that the public is at last beginning to realize the danger incurred by using polluted water. The laboratory is prepared at any time to examine samples of water, but in order to systematize the work and keep it within reasonable limits the following regulations governing the analysis of such samples will be rigidly enforced.

- 1. Any person desiring the analysis of a sample of water for the purpose of determining its fitness for potable use must apply to the local board of health of the town or city in which he resides. If that board, or its executive officer, considers that the circumstances render an examination of the water desirable, he will aprove the application and forward it to the Secretary of the State Board of Health. Should the latter approve the application, he will either instruct an inspector of the State Board to collect the sample or forward the application to the Director of the Laboratory of Hygiene, who will ship a sample bottle to the health officer making the application.
- 2. The sample must be collected by the health officer who forwards the application, or, if there is no health officer in the town, by some person designated by the Secretary of the State Board of Health. The person collecting the sample must sign a certificate stating that he has done so and must fill in fully the sheet sent for the purpose of giving a description of the source of the water.
- 3. Samples collected in any other way or by any other persons than those described above, or collected in bottles not furnished by the laboratory, will not be received for examination.
- 4. Transportation charges on sample containers must be paid both ways by the persons interested.
- 5. The State Board of Health assumes no responsibility for the correctness of analyses made of samples collected by persons other than inspectors of the Board.

Besides the examination of water from public supplies, samples have been examined from wells and springs, used as private supplies, to determine their fitness for potable use. The results of these analyses will be found in the following table:

Examination of water from wells on dairy premises.—During the year a considerable number of analyses have been made of waters from wells or springs on dairy premises, the results of which are given in the following table.

Table 6,-Results of Analyses of Samples From Wells on Dairy Premises.

Parts Per Million,

		einum	B coli comi presentin.	0-1cc.	none	٠.	none		none	none		lee.	10cc.	lce.	100.	10ec.	100.	10cc.	lee.	10ec.	10cc.	10cc.	none.	none.	10ec.	•	10cc.
			Chlorine.	133.0	4.2	31.0	46.0		5. 5.	5.2		11.0	9.1	9.6	18.0	18.0	10.0	3.0	36.5	9.6	7.6	82.0	45.0	4.0	48.0	93.0	20.0
		•	estartiN eA	44.800	006	2.400	3.200		000.	0.00		1.600	096.	.480	4.400	3.600	2.000	1.000	1.600	000	009	.360	096	1.920	2.240	16.000	3.200
	JEN.		estartiN eA	010	100	180	.231		.013	.002		.00	.012	.00	.002	.00	.0015	.002	.007	000	.002	.028	.024	90.	.012	.002	.042
	NITROGEN	,938	By Alkaline Permangan	.388	.026	040	too high	to read	.120	.154		. 228	.040	.028	990.	.044	.024	.042	.048	870.	.108	.422	.044	.074	.102	.034	020.
•		*18	inommA sA	.416	.010	890.	too high	to read	1.696	too high	to read	800.	000	.002	.002	010.	000	900.	900	.026	.002	.400	.048	.012	.152	<b>8</b> 0.	.234
raris Fer million			Odor, hot.	off.	1-6		1-0		3-0	5 off.		1 w	1 0	0	0	0	0	1 woody	0	2-e	1		2-6	3 v.	2 0	3 e	0
raris re			Odor, cold.			0	- P		3-0	4 off.		1 w	0	0	0	0	0	1 woody	0	0	1-e		1-e	9 7	0	1 0	0
		AMA A FOOL	LOCALIII.	903 Belleville	:	1904 Belmar.	Bridgewater Township	•	Colt's Neck	• • • • • • • • • • • • • • • • • • • •		:	Cranford	:	Cranford Township	:	:	Dover	Eatontown.	Fair Haven	Fair Haven	Farmingdale	:	:	:	:	:
			å	1903	:	1904	:		:	:		:	:	:	:	:	:	:	:	1904	:	:	:	:	:	:	:
		Ē	DATE.	6	6		t. 1			8		t. 30			56				16					7	7	14	٠.
				1594 Nov.	:	July	677 Sept.		1643 Apr.	1774 May		3045 Sept	July	:	;	:	3044 Sept.	:	3023	Aug	6 Aug	8 Apr	:	9 May	:	:	3064 Oct.
	! !	<u> </u>		-								304	2005		1983												306
į	ı			JΩ	A	Ω	田		А	А		Α	Ω	Α	А	А	Ξ	4	А	А	А	Д	Д	Α	А	А	Д

DATE.		LOCALITY.	, bloo , 100	10t, hot.	•sinommA	Alkaline E stanagnam	otanagnami otanagnami otanagnami otanagnami otanagnami otanagnami otanagnami otanagnami otanagnami otanagnami otanagnami otanagnami	Witrites.	.enine.	eoli communis
			0	0	¥ 	ď	<b>v</b>	₩	၁	<b></b>
۱ಜ	Hami	904 Hamilton Township.	0 :	0	000	.048	.004	2.400	16.0	lcc.
:		:	0	0	<b>8</b> 6.	.016	.00	4.500	17.0	100.
:	_	:	0 :	0,	8	080	.002	200	9.0	10cc.
:	Hillsb	Hillsboro Township	0	0	.030	990.	.014	8.000	10.0	1cc.
=	Holm	Holmdel	0	0	.018	.052	.0015	14.400	9.0	100
;	Hope	Hopewell Township	0	0	900.	820.	.020	13.400	27.0	lcc.
:		:	. 0	0	.010	060	.003	1.400	4.5	10cc.
:	Howell	- · · · · · · · · · · · · · · · · · · ·	0	0	.012	.038	.042	16.000	51.0	none.
=	Hunts	Huntsville	1 off.	3 off.	.056	.276	.048	1.800	8.0	none.
:	:				.114	.206	.002	000.	9.0	none.
:	:		0 :	0	.182	.036	000	000.	10.5	none
:	Jerses	Jersey City	4 off.	5 off.	too high	too high				
					to read	to read	:::::::::::::::::::::::::::::::::::::::	:	144.0	10cc.
=	_				.082	890.	.050	8.000	83.0	1cc.
:	_		0	2 e	.030	. 262	.040	32.000	180.0	1cc.
:	_		1 e	1 e	800	.058	020.	28.000	79.0	10cc.
:	_		2 m	3 II	8	.040	.126	14.000	43.0	lce.
=	_		. I B	4 m	.170	.182	.147	15.900	106.0	lec.
:	_		1 m	2 m	.150	.108	6.300	2.400	83.0	lcc.
:	Jerseyville		4-0	5-0	900.	.042	<b>10</b> 0.	16.000	24.0	none
:	Lineroft	oft	1 e	1 e	9	.016	.0015	.560	7.0	186
:	Little	ittle Silver	0	0	900.	.040	.002	7.200	17.5	100
፡	_			0	.024	.064	.003	2.400	15.5	100
:	•		. 1 v.	2 v.	860.	060	.252	2.400	30.0	100.
:	_		0	•	018	.050	000	2.400	17.5	100
:	_									

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Table 6
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No.	-								NITBOGEN	GEN.			
		DA	DATE.		LOCALITY.	Odor, cold.	Odor, hot.	.ainommA aA	By Alkaline Permanganate.	As Nitrites.	.estiviN aA	Ohlorine.	B. coli communia present in.
D	3002 A	Aug.	30	1904	9		le l	003	990	800	8	36.0	10ec.
E E	3003		30	:	0		2 off.	88	090	.015	.120	22.0	10ce.
E S	3015	Sept.	16	:	Middletown 3	•	2 6	.012	.028	.003	10.400	10.0	100.
ă	3014	:	16	:	Middletown Township 0		•	900	.054	.002	2.400	15.0	lee.
S S	2017	:	16	:	:	٠.	•	80.	090	.002	8.000	15.0	100.
ă A	3018	:	16	:	:		1 0	010	.048	400.	3.200	0.6	lee.
ă	3016	:	18	=	0		0	.072	.056	600	4.000	24.0	1cc.
1 1		pr.	7	:	Monroe	:		1.028	.230	00.	80.	2.0	10cc.
D I		uly.	98	:	Mountainside Borough0		•	910.	948	•10.	13.600	70.0	1000.
ă A		July	ಜ	:	New Orange	÷	1 V.	990.	990.	.024	4.800	33.0	100.
۵ م		:	ස	:		90	:	.130	. 224	.035	20.000	49.6	lce.
a A		ug.	32	:	Oceanic	9	2-0	.010	.126	.014	8.800	68.5	106.
Œ	238	:	8	:	Pennington 2	2 mouldy	2 mouldy	810.	.044	.015	4.000	44.0	10c.
¥	3092 Jr	July	14	:	Quarryville.		10	8	<b>8</b> .	00.	080.	2.0	lee.
₹	88	:	14	:				8	.022	100	1.600	8.0	10cc.
ā	V 6202	Aug.	<b>%</b>	:	Rumson Road, 0		•	.026	.132	200	9.000	0.66	lee.
A A		:	8	:	0		•	.014	180	.003	8.000	26.5	1000.
回		May	19	:	Seacaucus	-	-	<b>8</b>	.032	00	19.200	36.7	
a A		ug.	8	;	Shrewsbury 0	_		8	.028	800	11.200	80.0	10ee.
ر ا		:	ဓ	:	0			800	.018	90.	4.000	26.0	попе
ā	3005	:	ဓ	:	0			.012	810.	000	4.000	20.0	none
ā	900	:	8	:	• • • • • • • • • • • • • • • • • • • •		• •	.002	.028	.002	2.600	61.0	10ec.
E E	3007	:	8	:	:	<b>&gt;</b>	1 v	080	980	.073	8.000	61.0	10cc.
Ð		:	ಜ	:	:	•	50	8	.030	.007	993.	11.0	none
S S	30 <u>46</u>	Ġ.	က	:		•	•	210.	.030	.002	12.000	41.0	100.
闰	678 P	Sept.	-	:	Somerville	_	10	.024	.058	.042	6.400	15.0	none

		B. coll cemmunis present in.	100.	8	10ec.	.66	oc.	ee.	jee.	ee.	.00	.00	.00	ee.	ee.	none	10ec.
fillion,		Chlorine.	. _		4.5												_
urts Per M		As Nitrites.	2.400	1.600	1.600	2.800	.012	2.600	2.400	904		16.000	2.400	.360	2.000	2.500	12.000
mises. P	EN.	.estiritu aA	.002	.002	.002	.0015	8	.002	<b>%</b>	.002	8	100	.00	.00	.005	00	9
Dairy Pre	NITE OGEN	By Alkaline Permanganate.	980.	.018	<b>8</b>	880.	.110	820	8.	980	.110	820	.026	.018	.018	490.	.034
Vells on I		.ainommA aA	000	800.	090	910.	.034	.002	.014	00.	970	000	000	000	9	00.	900:
s From V		Odor, hot.	20	0	2 mouldy	1 e	1.0	1 4	×	10	• -		•	- : : : : : : : : : : : : : : : : : : :	•		0
of Sample		Odor, cold.	20	•	1 mouldy	0	•		2 4	0 1		1.0		1 woody		:	0
of Analyses		<b>3</b>															
Table 6ContinuedResults of Analyses of Samples From Wells on Dairy Premises. Parts Per Million.	,	LOCALITY	South Estontown.	eld.	•	,		Falls				e	ld	Westfield Township	•	unk.	
Continue			South F	Springfield.	Stirling	Sussex	:	Tinton	:	:	Wallkill	4 Wayside.	Westfield	Westfie		Wickstunk	Blank
90		Ë		: 90	:	: 9		:	. 0	:	9.	6 190	:	: 92		: 21	
Tabl	·	DATE.	-	fuly 2	Aug. 2	July 1		Aug. 3	:	:	July 1	pt. 1	July 2	•	Sept. 2	-	Sept.
٠٠.		No.	3022	1988 Ju	3252 At	3090 Ju	3097	3009 At	3010	3011	3094 Ju	3021 Sept.	1986 Ju	1984	3043 Se	1623 Ar	736 Se
: [	l		la	A	∢	∢	4	Ω	A	A	<b>∢</b>	Ω	Ω	A	Α	А	闰

In interpreting these results much weight has been given to the result of the examination for B coli communis. While it seems established that this organism may be found at times in small numbers in specimens of water which are, when judged by chemical standards, uncontaminated; yet it is equally well established that this organism does not lead a saprophitic existence in the soil or in water, and the only considerable source of supply is from the intestinal tract of animals, (mammals). While the occasional presence of this organism in small numbers in water, otherwise unobjectionable, may be indicative of such occasional pollution as may occur in any body of water exposed to the visitations of animals: the continuous presence in a water in fairly large numbers can hardly mean anything except that the water is continually receiving polluting material. This statement applies with especial force to wells, inasmuch as these when properly constructed are not exposed to accidental invasion of colon bearing material. Raw sewage contains this organism in extremely large numbers, 10,000 to 100,000,000 per ccm. It is evident, therefore, that an estimation of the number of colon bacilli per ccm. may under certain circumstances give a rough approximation of the extent of pollution.

Nothing is more likely to lead to error than the establishment of rigid standards of comparison in the interpretation of results of water analyses. To a very large extent each water must be considered by itself, and the results of analyses interpreted in conjunction with a careful study of the source of supply and its surroundings. Nevertheless, in order to make comparisons possible, some kind of a standard must be established. With dairy wells we have disregarded entirely the presence of colon bacilli when they occur in fewer numbers than 1 in 10 ccm. If the number present is between 1 and ten in 10 ccm., the water is regarded as suspicious, if the chemical analysis reveals no distinct evidences of pollution. If the water contains one or more per ccm., it is regarded as being polluted; and, if more than 10 per cem., as seriously polluted and unfit for domestic uses. Of course if chemical analysis reveals distinct evidences of pollution, a water may be condemned irrespective of the bacterial findings. Even though such a sample may be temporarily free from the colon bacillus, it is always possible, and usually highly probable, that it will become infected at some subsequent period. The analysis of sample E 677 will serve to illustrate this. This specimen was taken from a dug well 30 feet deep, in the bottom of which a pipe had been driven for a further distance of 50 feet. This well is located within 5 feet of a filthy barnyard, the drainage from which runs directly into the well. Chemical analysis indicates that this pollution is great and presumably recent, and the description of its surroundings shows that it would be almost impossible for good water to be obtained from such a well. The absence of the colon bacillus may be accounted for by its removal by filtration of the polluting material through the soil before it reaches the well. But it is never safe to trust to natural soil filtration through short distances to remove bacteria. While a properly constructed sand filter is an exceedingly effective agent for the removal of bacteria when properly cared for

and kept perfectly homogeneous throughout, yet filtration through natural soil for short distances cannot be relied upon, because it is impossible to maintain a homogeneous structure in it, and channels form which convey the unaltered sewage for long distances. This is especially true in some sections of this State where the underlying rock is a soft friable red shale, seamed by innumerable stratification cracks whose inclination is but slightly removed from horizontal. In such rock water travels rapidly for long distances, and a focus of pollution may make itself felt over a large area.

During the year analyses of water samples from wells located at certain railroad stations in the State have been made, to determine whether or not these wells furnish satisfactory drinking water. It is gratifying to be able to state that the railroad companies, when notified that wells which were used to provide water for drinking purposes in railroad stations were polluted, promptly abandoned their use. The following table shows the results of the analyses of these samples:

Table 8.—Results of Analyses of Water Taken From Wells at Railway Stations.

Parts Per Million.

ei ei	B. coli Communi present in.	none	none	10cc.	10cc,	none		none	none	_ `
	Chlorine.	17.4	20.0	22.0	29.0	13.0		16.5	86.7	_
	As Mitrates.	3.080	2.720	2.240	8.600	7.800		11.320	16.000	_
GEN.	As Nitrites.	.005	900.	.002	900	98.		.014	.024	_
NITROGEN.	By Alkaline Permanganate.	.039	.144	.050	.042	296		990.	very	high
	.sinommA sA	- 400	040	.002	.002	too high	to read	.024	very	high
	Odor, hot.	0	0	:	:	0		- :	1 0	_
	Odor, cold.	0	0	:	:	0		:	0	
	LOCALITY.	25, 1904 Atlantic Highlands	" Bayonne		:	Belford		Morganville	Rockaway	
	DATE.		8		; 9	b. 16 "		91	.,	
	č	D 1439 Jan.		D 1603 Apr.		D 1485 Feb.		D 1620 Apr.	1450	

Besides the analyses already given, a few others for various purposes have been made, and the results will be found in the following table:

Table 8,—Miscellaneous Analyses of Water, Parts per Million,

	15		ı				
		B. coli communis present in.	lee.	none	10cc.	lce.	lce.
		Chlorine.	2.0	8.0	9.3	114.5	30.4
		.estriju es	.200	1.800	800	:	2.600
	NITROGEN.	.esteriin sa	100	.048	.032	810.	100
	NITR	by skaline permangenate.	.036	.276	.074	.180	.038
•		. sinomms es	.004	.028	000	.158	<b>.</b>
the post sections		Odor, hot,	2 e	3 0	<b>4</b> m	5 s	
		Odor, cold.	0	10	2 2	2 8	
		LOCALITY.	14, 1904 Carr's Quarries	Huntsville		Keyport	Neshanic.
		TE.	4, 1904	:	88	:	81
		DATE.	July 1				
		No.	A 3091 July	E 636 Jan.	D 1449 "	D 1746 May	E 714 Aug.
- 1			-	_	$\overline{}$	_	~

Bacterial analysis of water.—On account of the difficulty of getting water samples to the laboratory promptly, the determination of the number of bacteria per cubic centimeter is not usually attempted. In every case, however, water samples are examined for B. coli. As the methods used in this laboratory (modifications of those proposed by Stone) differ somewhat from those used elsewhere, it seems desirable to give them in full.

Immediately after the receipt of the sample, one cubic centimeter and 10 ccm. are planted, in duplicate, in lactose-neutral-red broth (\*1) in Durham tubes (\*2) and incubated at 40 degrees C. for 18 to 24 hours. Those tubes in which no gas has formed, or where no decolorization of the neutral red has taken place, are discarded as being free from B coli; from those showing gas, decolorization and fluorescence of the solution...1 ccm. removed, planted in carbol broth and incubated for 24 hours at 40 degrees C. From carbol broth transfers are made into ordinary fermentation tubes containing lactose-neutral red broth and incubated at 40 degrees for 24 to 48 hours. At the expiration of this time the amount of gas is measured and the gas formula determined. Those tubes which contain between 25 per cent. and 60 per cent. gas and whose gas formulae are approximately correct (H-CO<sub>2</sub>: 2-1) are further tested by plating in lactose litmus agar. Red colonies from these plates are tested in litmus milk, for reduction of nitrates, for indol, and examined for morphology and motility. Bacteria giving typical reactions for these tests are regarded as being B coli communis.

When this method was first adopted, the usual form of fermentation tube was used for the first fermentation and the amount of gas and the gas formula determined after 48 hours. It was found, however, that the results obtained were quite valueless, neither the percentage of gas nor the formula showing any constancy. After passage through carbol broth the second fermentations show a very satisfactory constancy both as regards the total amount of gas and the ratio of hydrogen to carbon dioxide. It is rare that when the second fermentation tube shows a typical reduction of neutral red, from 30 per cent. to 45 per cent. of gas and a correct gas formula, that the organism isolated from it fails to respond to all the other tests for the colon bacillus.

No routine examinations are made for other organisms, as the result of the test for B coli gives very satisfactory results, and the value of tests to demonstrate the presence of B. enteriditis sporogenes and sewage streptococci is doubtful on account of the difficulty of interpreting the results when obtained.

Examination of Shellfish.—During the year several examinations of shellfish from different parts of the State have been made for the purpose of determining, if possible, whether or not they had suffered deterioration by being immersed in water suspected of being polluted with sewage. Before sending oysters to market it is the custom to remove them from

<sup>\*1</sup> Standard ment broth containing 1 % lactose and .005 % neutral red. \*2 A 3 x 3-8 test tube inverted in a 6 x 3-4 tube c ntaining 10 ccm. of lactose-nentral-red broth. Plain broth is filled into the tubes which are sterlized in the autoclave, the lactose and neuiral red being added just before the tubes are used.

the beds in which they are grown, and place them for a short time in floats immersed in brackish water in order to fatten them and thus improve their appearance. These floats are usually located at the mouths of rivers or smaller streams where the water at times is nearly fresh. New Jersey is a thickly populated State, and most of its rivers at the points where they empty into the sea are more or less polluted. The object of the investigations in question is to determine whether or not oysters fattened in these localities are to be regarded as dangerous to health. Numerous epidemics of typhoid fever have been caused by the ingestion of raw oysters, and it therefore seems proven that under suitable conditions the oyster has acted and may act as a carrier of infection. The most probable way in which the oyster becomes infected is by being immersed in water containing typhoid bacilli. Large quantities of water are constantly passing through the stomach of the oyster, and any organism present in water is likely to be found in greater numbers in the oyster than in the water. At the present time it seems almost useless to attempt to isolate the typhoid bacillus in the routine examination of shellfish, although it might occasionally be possible if they were present in fairly large numbers. It is very easy, however, to demonstrate the presence of the colon bacillus and make an approximate determination of the number of these organisms present. The methods used, which are modifications of those employed by Houston (\*1) in a similar investigation, are as follows:

Ten oysters from a given locality are selected, the shells thoroughly scrubbed with water, and finally rinsed with sterilized water. The operator's hands are then sterilized and the oysters are carefully opened with a sterile knife, the liquor in the shell being allowed to run into a sterile 1000 ccm. graduate. The oysters are finely cut up with sterile scissors and also placed in the graduate. (\*2) The volume of the mixture having been ascertained, the graduate is filled to the 1000 ccm. mark with sterile water and the mixture thoroughly stirred. Each of three Durham tubes containing lactose-neutral red, broth is now inoculated with 1 ccm, of the mixture, three others are planted with 1-10 ccm., three others with 1-100 and three others with 1-1,000 ccm., the amounts being measured in each case by adding 1 ccm. of the mixture to a suitable quantity of sterile water, shaking thoroughly, and using 1 ccm. of the dilution for planting. In this way amounts of the mixture corresponding respectively to 1-100, 1-1,000, 1-10,000 and 1-100,000 of an average oyster are used. These Durham tubes are treated in exactly the same way as similar tubes used for examining specimens of water for B. coli. (see p. 227).

The results of such of these examinations as have been completed are as follows:

<sup>\*1 14</sup>th Report of Commissioners on Treatment and Disposal of Sewage. Vol. III, 1904; \*2 It would be preferable to run the bodies of the oysters through a small sterlized meat prinder.

Table o.-Examination of Shellfish.

Date	в.	1	No.	Kind.	Locality.	Average No. B. coli per oyster.	No. of B.coli per ccm. in water from which oys- ters were taken.
1904.							
	17			Clams	From Thoroughfare back of Atlantic City, near sewer outlet		
July	24	E	700	"	Atlantic City. Thoroughfare at sewer outlet		
•	24	E	701	"	Atlantic City, Thoroughfare 1½ miles north of sewer outlet		
"	24	E	702	٠	Atlantic City. Thoroughfare 1½ miles south of sewer outlet		
Sept.	13	D	1313	Oysters.	Greenwich Piers, from floats in Cohansey Creek		 
Oct.	8	D <sub>.</sub>	3068	<b>"</b>	Rahway River, 4 miles below Rahway	10,000	0.1
"	24	D	3108	<b>"</b>	Bivalve. From floats on Maurice River	1,000	1.0
**	26	D	3112	<b>"</b>	Maurice River Cove. Ground No. 358.	50	0.0
							<u> </u>

At the present time the data are quite inadequate to permit an intelligent interpretation of results. It will be seen that the oysters thus for examined with the exception of Sample D 3,112, which was taken from a locality far removed from sources of possible pollution, contain the colon bacillus in very large numbers, but it must be remembered that these oysters came from localities which undoubtedly received polluted water. It will be necessary before it is possible to pass judgment on the results of bacterial analysis to make an extended series of observations on oysters from various localities, both good and bad. Houston (\*) has shown that coli-like organisms may be found in large numbers in oysters taken from beds which are apparently unpolluted. His tests are hardly complete enough to make it certain that the organisms isolated by him were really

<sup>\*4</sup>th Report of Commissioners on Treatment and Disposal of Sewage. (Vol. III, 1904).

B coli, but it is highly probable that they were, and his results show that much caution must be used in judging the quality of shellfish entirely by the result of bacterial analyses. Of course instances occur where pollution of the water in which the oysters are grown or fattened is so great that no error can be made by condemning them; but in most cases, at least in the present state of our knowledge, the bacterial examination must be regarded merely as supplementary to a careful and thorough sanitary examination of the localities in which the oysters occur.

It should not be forgotten that oysters are not necessarily rendered dangerous to health because they have access to and contain large numbers of the germs ordinarily present in sewage. Only when the sewage in question contains the specific organisms of typhoid fever or of the other water borne diseases does the use of cysters taken from water to which sewage is added become dangerous. The discovery of the colon bacillus in numbers sufficient to warrant the assertion that the oysters are actually obtaining sewage in appreciable qualities, therefore merely indicates that such bivalves may, at any time when the sewage becomes infected, act as carriers of disease. That they actually do this, the epidemics directly traceable to them clearly show; that such an occurrence is infrequent will readily be seen when we consider the enormous numbers of oysters, taken from localities which are undoubtedly highly contaminated, which are eaten raw without harmful effects. Great caution is therefore necessary in any attempt to restrict the distribution of shellfish from polluted localities lest unnecessary hardship be inflicted on those engaged in one of our most important industries. There can be no doubt that there is danger in using shellfish from polluted localities; there can also be no doubt that the danger is rapidly increasing as our streams become more and more polluted, but an adequate remedy is not easy to devise which will not more or less completely paralyze the industry.

Department of Foods and Drugs.—The work of this department has consisted, as for several years past, in the examination of certain substances particularly liable to sophistication, the systematic examination of milk and its products, and in the examination of water. The examination of water has already been discussed in the report of the bacteriological department. The variety of articles of food and drugs is limited for three reasons: (1) There is little or no necessity for investigating a large number of these products, which are regularly put on the market in a state of purity sufficient to meet all reasonable requirements; (2) it is only practicable to examine those substances whose degree of purity can be determined beyond question by well established methods of analysis; (3) the law under which these examinations are made is defective, in that it does not include many classes of substances which properly come within the jurisdiction of a pure food law. The following table shows the number of specimens examined during the year in this department:

Table 10.— Table Showing the Number of Specimens Examined During the Year Ending October 31, 1904.

Article.	Above Standard.	Below Standard.	Total.
Milk	1335	276	1611
Foods	608	453	1042
Drugs	444	483	927
Totals	2387	1193	3580
Water		1	184
Shellfish			8
Total number of specimens exam Percentage of adulteration, 31.8		! 	3772

The analyses of water and the examination of shellfish have been included in this table, as no account of them has been credited to the bacteriological department, although fully half the work of water analysis and practically all of examining shellfish has been done in this department. The operation of these two departments overlaps more and more as time goes on, and it should be understood that certain investigations which enlist the services of both departments are classified with one or another largely as a matter of convenience.

Examination of Milk.—During the year the examination of milk has been confined to the determination of total solids and to the performance of tests for preservatives and coloring matter. Attention was called in the report of this department for 1903 to the necessity of establishing a legal minimum for the fat content of milk. The fat is usually regarded as the most valuable constituent of milk, and is certainly the most variable and easily tampered with; the necessity for a standard for fat is therefore imperative, and it is suggested that the proper minimum is that established by the U. S. Department of Agriculture, viz., 3.25 per cent. A legal requirement that milk should be continuously kept below a certain temperature, say 50 degrees F., would have an enormous influence for good on the milk supply of the State.

While it may be possible that the conditions under which milk is being produced in this State are improving, it is certain that they are not improving as rapidly as they should, or as they are doing in other states. Public opinion is at last awakening to the fact that milk, in order to be safe, must be the product of healthy cows, drawn and cared for in a cleanly manner, and the public is beginning to demand milk produced in this way. The amount of clean milk available is very small, there being several reasons why its production is limited. (1) Most of our market milk is produced by small farmers, who have neither the intelligence nor the capital to produce it properly. (2) The cost of production of clean

milk is slightly greater than when the primitive methods commonly employed are used, and this increased cost of production is not at present offset by a larger price for the better product. (3) The wholesale price of milk has been so near the actual cost of production for some years, that many farmers, whose habits and business methods are careless, have been actually losing money at the ousiness and are consequently not inclined to make any alterations in their methods which will increase the cost of production.

Laboratory investigations regarding the cleanliness of milk can only supplement the more important work of dairy inspection. While chemical analysis can usually detect the addition of preservatives or other recognized methods of tampering with milk, yet it gives no evidence of importance concerning cleanliness and harmlessness. Bacteriological examination throws much light on the condition of the milk and the care which it has received, but direct inspection of the premises on which the milk is produced and investigation of the methods used in caring for it until it reaches the consumer, yield much more satisfactory information than any other method. The work of the laboratory is confined at present to the chemical analysis of milk for the purpose of determining whether or not it conforms to the legal requirements. The percentage of adulterated samples of milk during the year is 17.1, a much higher percentage than in previous years. This is due to the large number of adulterated samples obtained during the summer from Jersey City and its vicinity. The milk supplied to this locality during the last year has suffered serious deterioration, and special efforts have been made to correct the evil by vigorous prosecution of the offenders. The results of these prosecutions have not been altogether satisfactory for reasons given below.

Enforcement of the Law.—During the past summer the defects in the law as it applies to milk have been forcibly demonstrated. A large number of suits were ordered against dealers in Jersey City, and most of these cases were lost because of the cumbersome and ineffective procedure which the law prescribes. Much vexatious delay would be avoided and a more certain administration of justice would be secured if trials of offenders against the law were made summary proceedings. Trial by jury in these cases is unsatisfactory and often unjust, because the jury is called upon to decide questions relating to the chemistry of milk, upon which it is not qualified to pass. A succession of travesties on justice, which encourage the unscrupulous milk dealers to adulterate their milk and greatly hamper the State authorities in their efforts to perform their duties, have been performed during the last summer, and will continue until the law is modified to provide a more direct and effective method of punishment in these cases.

Bacterial Examination of Milk,—Up to the present time it has not been found possible to make bacterial examinations of milk. If time permits, a bacterial investigation of the milk supply of one or more cities in the State will be undertaken during the coming year.

#### EXAMINATION OF FOODS OTHER THAN MILK.

Renovated Butter.—The amount of renovated butter sold in this State as creamery butter is very large, and the greater portion of it contains some preservative to arrest a second decomposition. Provision should be made requiring that this article be sold under its true name.

Oleomargarine.—The amount of oleomargarine sold is not as great as formerly, renovated butter having in a measure supplanted it. There can be no doubt, however, that much of it is sold as butter, but violations of the law are exceedingly difficult to detect.

Cider Vinegar.—A large number of samples of cider vinegar have been examined and more than half of them have been classed as "below standard," either because they fell below the standard fixed by law for solids or acetic acid, or because vinegar made from some other material than apple cider had been wholly or partly substituted for the genuine article. While there is no difficulty in obtaining genuine cider vinegar in the country districts, a great deal of the so-called cider vinegar sold in cities is partly or entirely spurious, and considerable ingenuity is often shown by manufacturers in preparing imitations, which are difficult to detect by ordinary analytical methods. The standard fixed by law for total solids (2.0 per cent.) is too high; many undoubtedly pure cider vinegars made by the quick process yielding solids lower than this figure. A series of examinations of samples of quick process vinegar of undoubted purity, will illustrate this point:

	Solids.	Acetic Acid.
	Per Cent.	Per Cent.
A	 1.81	6.12
В	 1.77	5.63
C	 1.92	5.81
D	 1.79	5.96
$\mathbf{E}$	 1.72	6.33
F	 1.99	6.10

The provision of the law requiring at least 2.0 per cent. of cider vinegar solids is therefore unjust, if the solids are to be determined by the ordinary methods of analysis, and induces manufacturers to violate the intent of the law, which they do by adding boiled cider or other substances in sufficient quantity to bring up the percentage of solids to the required amount.

It is desirable that some standards be fixed for vinegars other than cider. The terms used to describe the other varieties on the market are so vague and so loosely applied that much confusion and actual fraud arises from their use.

Molasses.—Considerable improvement has taken place during the last year in the quality of molasses sold in the State. Much of it sold as pure molasses still contains glucose, but the dealers as a whole are getting to be more careful to call this mixture "compound molasses," a misleading term, whose use should not be permitted. The word "compound" as applied to adulterated foods has been grossly abused by manufacturers, who seem to regard it as a certain safeguard against prosecution. It would be well if makers were compelled to label adulterated articles now sold as "compound." with a formula stating exactly the nature and amounts of the various ingredients used in their preparation.

The following table shows the result of the examination of foods other than milk:

Table 11.--Foods Other Than Milk.

Article.	Above Standard.	Below Standard.	Total.	Percentage of adulteration
Buckwheat Flour	1		1	0.
Butter.	19	15	34	44.1
Candy.	1		1	0.
Canned Corned Beef.	î		ī	o.
Cocoa	67	12	79	15.1
Coffee	8	5	13	38.4
Condensed Milk.	ĭ		1	0.
Extract of Lemon	2	16	18	88.8
Honey	35	13	48	27.0
Lard	63	2	65	3.0
Maple Syrup	36	5	41	12.1
Molosses	156	83	239	34.7
Oleomargarine		3	3	100.
Orangeade	3		3	0.
Syrup	1	1	2	50.
Vinegar	214	277	491	56.4
Miscellaneous		2	2	100.
Totals	608	434	1042	41.6

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Drugs.—The number of drugs examined this year was much greater than ever before. The following table shows the number and kinds of specimens examined during the year:

Drugs.

Article.	Above Standard.	Below Standard.	Total.	Percentage of adulteration.	
Aether	19	38	57	66.6	
Alcohol		2	<b>2</b>	100.	
Antitoxin	3		3	0. 1	
Aqua destillata		7	7	100.	
Capsicum	19	7	26	26.9	
Kerosene.	2		2	0.	
Linimentum camphoræ	32	83	115	72.1	
Oleum olivæ	120	31	151	20.5	
Potassi bitartras	122	9	131	6.8	
Sinapis nigra	11	3	14	21.4	
Sodii boras	38	30	68	44.1	
Spiritus aetheris nitrose	2	5	7	71.4	
Tinctura iodi	59	178	237	75.1	
Tinctura opii	17	90	107	84.1	
Totals	444	483	927	52.1	

It will be seen by inspecting the table that certain drugs examined. notably tinct. iodi, tinct. opii and linimentum camphorae show a very high percentage of samples which fall below the requirements of the Pharmacopoea. It is, of course, to be expected that such substances as spiritus aetheris nitrose and aqua destillata would frequently be found not to comply with the legal requirements, because the former is very unstable and the requirements set by the Pharmacopoea for the latter are impossible of fulfillment except by the adoption of methods in its preparation and storage which cannot be used in the manufacture of an article of commerce. There is little excuse, however, for deficiency in strength of the first three drugs mentioned, and the large percentage of adulteration must be attributed to the ignorance or cupidity of the makers. It is true that tincture of iodine deteriorates when kept, but this deterioration is slow when pure iodine and good alcohol are used in its preparation. An obvious method of avoiding such deterioration is to make up the tincture frequently and in small lots. That at least some of the druggists are aware of the deficiency in strength of their tinctures is revealed by the frequent receipt of samples consisting of a saturated solution of iodine in alcohol containing considerable quantities of free lodine undissolved; showing an abortive attempt to improve a defective preparation when an inspector of the State Board of Health is the purchaser. A claim has been made by certain druggists that camphor liniment loses a very considerable amount of camphor when kept and dispensed in the ordinary manner. This claim has no basis of fact. Experiments made in this laboratory show that the loss of camphor from camphor liniment made and stored in the usual way is so slight as to be almost negligable, and certainly will not account for the deficiency of camphor in most of the samples received.

During the coming year the variety of drugs examined will be increased and the total number will also be increased. In view of the large percentage of adulteration it seems that the work of the laboratory in this direction is very necessary and might properly be extended.

# Report on the Food Supplies of State Institutions.

By George W. McGuire, Chief Inspector of Food and Drugs.

To the Board of Health of the State of New Jersey:

Gentlemen:—I have the honor to submit to you, herewith, my reports on the character, condition and handling of the food supplies of the following State institutions:

State Prison	Trenton
State Schools	Trenton
State Hospital for the Insane	Trenton
State School for Deal Mutes	Trenton
State Home for Girls	Trenton
State Training School for Colored You	thBordentown

At each institution a thorough examination was made of the food stuffs on hand, and such samples as were most likely to be adulterated, were secured and sent to the laboratory for analysis. In every instance the meats, vegetables, fruits and provisions were found to be of good quality and sound, all perishable foods being furnished by local dealers several times a week, according to the demands of each institution. The water for drinking purposes is supplied either from the Trenton city mains or from very deep tube wells, except at the Colored Training School, where an old-fashioned dug well supplies the demand. At the State Normal and Model Schools, the Deaf Mute School and the State Hospital, manufactured ice is placed in vessels of drinking water to reduce the temper-This is a questionable practice, inasmuch as the ice, handled by the employes of the ice company and the servants of the institutions, may infect the water. A better plan would be to surround the vessel with ice, so that it would not come in direct contact with the water. At the Deaf Mute School and the State Schools the water is boiled before being used. All the butter examined at the different institutions was sweet and of excellent quality. At the State Home for Girls a good quality of oleomargarine, manufactured by Armour & Co., is used. The analyses of the milk samples secured at the several institutions show that a good quality is provided, so far as the richness of the milk is concerned. There is a wide variation, however, in the methods followed in the handling of the

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milk and in the management of the dairies from which it is drawn, as is shown by the records herewith submitted. The price paid by the managers of the different institutions ranges from three and one-quarter to five cents, as follows: State Prison, 31/4 cents; School for Deal Mutes, 4½ cents; State Home for Girls, 5 cents; State Hospital, 5 cents; State Schools, 5 cents; Colored Training School (own cows). milk is furnished by regular dealers or middlemen on a competitive basis is no guarantee against its pollution before it reaches the institutions. Cheapness should not be a prerequisite in the purchase of milk, regardless of what treatment it receives at the dairies. If the management of each institution would require the successful bidder to name the source of his supply, and thereupon demand that proper methods be maintained in caring for the milk at the dairies, much could be accomplished toward mitigating the unsanitary conditions found upon some of the dairy premises during the progress of this investigation, and this would at the same time render the State Board of Health valuable assistance in the work it is striving to perform, in improving the hygiene of the milk supply of the At the State Hospital at Trenton, the State Schools, the School for Deaf Mutes and the Girl's Home, the milk is kept in dark, unventilated chests, at a temperature ranging from 60 to 45 degrees F. It was found in open vessels, surrounded by strong smelling foods, both cooked and uncooked. The same rules should govern the handling of milk at these establishments as are required of the dairymen. Special ice chests, or at least separate apartments, should be used for the storing of milk, at a low temperature, pending consumption. The following list shows the number of samples of food taken, and the result of each analysis: State Prison-Molasses, pure; vinegar, vinegar solids, 1.80, acetic acid, 5.00 per cent.; milk, total solids, 13.50 per cent. State Hospital for the Insane at Trenton-Molasses, pure; vinegar (not cider vinegar), solids 3.20 per cent., acid, 4.70 per cent.; lard, pure; syrup, pure; butter, unadulterated. School for Deaf Mutes—Butter, unadulterated; lard, pure; vinegar, solids, .94 per cent., acid, 2.35 per cent. State Schools-Molasses, pure; vinegar, solids, 2.70 per cent., acid, 4.90 per cent.; milk, total solids, 13.36 per cent; syrup, chiefly glucose; lard, pure. Girl's Home-Vinegar, solids, 2.25 per cent., acid, 5.23 per cent.; molasses, contains glucose; lard, pure; milk, total solids, 14.10 per cent. Colored Training School-Vinegar, solids, 2.26 per cent., acid, 4.50 per cent.; lard, pure. On the whole, this investigation has demonstrated that the officials who are entrusted with the selection of the food supplies are conscientiously striving to procure wholesome food for the inmates of the foregoing State institutins. I am indebted to the following officials for their courteous treatment and the willing assistance they rendered me in the above inspection: Hon. E. J. Anderson, Supervisor State Prison; Dr. John W. Ward, Medical Director State Hospital; Miss C. D. Provost, Matron State Schools; Mrs. Elizabeth V. H. Mansell, Superintendent Girl's Home; Prof. John P. Walker, Superintendent Deaf Mute School; Prof. J. M. Gregory, Superintendent School for Colored Youth.

#### THE STATE PRISON.

The buildings of the State prison are located at Trenton, and the present occupants consist of thirty-five (35) females and one thousand, one hun-ired and forty (1,140) males, a total of one thousand, one hundred and fifty-three (1,153) convicts. The diet of the inmates consists chiefly of fresh beef, corned beef, mutton, salt pork, scrapple, fresh fish, salt mackerel, potatoes, onions, turnips, carrots, cabbage, bread, oatmeal. peas, beans, rice, barley, milk, sugar, coffee, tea, canned tomatoes, eggs, butter, prunes, molasses and vinegar. The contracts for furnishing these food supplies are awarded semi-annually to the lowest bidders in conformity with samples furnished by the supervisor, and are not limited to merchants of this State. The food on hand at the time of the inspection, September 13, 1904, was sound and of good quality. Samples of milk, vinegar and syrup were taken, and proved on analyses to be equal to the standard required by law. The milk is furnished at present by George Reck, a local Trenton dealer, in about the following quantities: Mondays, 250 quarts; Tuesdays, 250 quarts; Wednesdays, 250 quarts; Thursdays, 150 quarts; Fridays, 600 quarts; Saturdays, 300 quarts; Sundays, 350 quarts. At present Reck receives his supply of milk for the prison from the territory south of Trenton, in Mercer and Burlington counties. tailed reports of the management and condition of the dairies are appended to this report. They furnish milk in the following quantities: Richard B. harrison, Chesterfield, Burlington county, 350 quarts; R. E. Haines, Mercer county, 70 quarts; Walter Haines, Mercer county, 100 quarts; W. H. Mills, Mercer county, 15 quarts; Leandert Bozart, Mercer county, 65 quarts; total 630 quarts. It frequently becomes necessary for the contractor to seek other sources when there is a shortage in the milk furnished by these dairies. and at such times local dealers and creameries are called upon to supply the deficiency. The milk cans are washed by the contractor on his premises at 215 Cummings avenue, and the room used for this purpose is a cellar having a cement floor, with drainage to the city sewer. City water is used in washing the cans and utensils, the hot water being obtained from the kitchen range boiler, through a pipe reaching to the cellar. The cleansing process consists of rinsing with cold water, then scrubbing the cans inside and out with bot water, after which they are rinsed again with cold water and inverted on racks in the yard. The milk arrives at Reck's place from the farms about 4.30 P. M., and the cans, with closed lids, are placed in covered vats of ice water and left there until 6.00 A. M. on the following day. The water is supplied to the vats by hose from the city mains, and the ice comes from the United Ice Company of Trenton. The water remains in the vats about two weeks, and is then discharged into the sewer and the vats refilled with fresh water. This method is faulty, inasmeh as the outside of the cans, by the time of their arrival, may have gathered filth of almost any description, which would necessarily contaminate the water. If no other method of refrigeration is possible, fresh water should be used at least daily. When the milk arrives at the prison it is taken to a large refrigerator room and kept at a temperature of about thirty-five degrees. At the time of the inspection there were seven fortyquart cans in stock. The lids were off the cans. The milk room contained quantities of fresh and salt meats and two barrels of cabbage, in addition to the milk. As the milk is emptied the cans are washed inside and out with hot water, and taken to the open air and dried. Prisoners are allowed one pint of milk one day a week, and on two days are given dishes of bread and milk and mush and milk. The rest of the milk is used cooked.

## STATE HOSPITAL FOR THE INSANE.

The State Hospital for the Insane, located at Trenton, is controlled by a board of eight managers appointed by the Governor. The Honorable Garret D. W. Vroom is the president of the board, which has the appointment of the officers of the medical and business departments, the following gentlemen being the chiefs: John W. Ward, Medical Director; William Hays, Warden. At the present time there are 1,226 patients in the institution, about equally divided as to sex. I was informed by Dr. Ward, who has been identified with the Hospital for nearly thirty-eight years, that during his official charge of the institution there has been no case of contagious or infectious disease arising on the premises until the spring of 1904, when fifteen cases of diphtheria developed among the inmates. The patients were isolated and no further cases occurred. No cause was discovered for the outbreak.

The Warden has full power to purchase all food supplies, without resorting to advertisement for bids, except in the case of fresh meats, which are supplied under quarterly contracts. The contract for the meat supply of the last quarter was awarded to the Trenton Abbatoir Company, which contract expired September 30. Mr. L. H. Stein, a Trenton butcher, and a dealer in western meats, has received the contract for the next three months. The dietary consists of cereals, fresh and salt meats, fresh and salt fish, bread, butter, coffee, potatoes, all other vegetables, tea, rice, cheese, pickles, oysters, milk and fruits. The food supplies are stored in rooms annexed to each of the four kitchens designated as Centre, East, West and Annex. Connected with the State Hospital there is a farm of one hundred and fifty acres, on which are grown most of the vegetables for use in season. No canned fruits or vegetables are purchased, all these being bought from farmers within twenty miles of the institution and canned in glass by the employees in the kitchens. All the tomatoes are raised on the farm and placed in seven-gallon tin cans. A flour mill on the premises, equipped with modern machinery, furnishes nearly all the flour consumed. When there is a shortage, additional supplies are purchased from Trenton mills. The meats, vegetables and fruits were examined at the time of the inspection and found to be sound and of good quality. All groceries are bought from Trenton merchants. About 14,000 oysters are used per week. No raw oysters are served except in special cases, on requisition from an attending physician. The fish and oysters are furnished by J. M. Atwood, a Trenton dealer. The supply of coffee is bought in the bean and is a mixture of Rio, Maracaibo and Java. Onethird chicory is added to it when ground. The Farmers' Exchange at Belle Mead and the Elgin, Illinois, creameries furnish the butter supply.

Lard is furnished by Margerum Brothers, packers, of Trenton. The ice used for ice water is manufactured on the premises from distilled water, and is placed in the water for drinking purposes. About 200 tons of ice is also gathered annually from the Delaware and Raritan canal, and used for cold storage purposes. The water supply is derived from three driven wells, each about 250 feet deep, and one surface well near the laundry building. The latter is walled up for about 13 feet, the well being about 20 feet in diameter. The well contains about three feet of water. A Downey pump, with a pumping capacity of 100,000 gallons per day, is placed over each of the three wells near the engine house. Water from the spring near the canal feeder is also forced to the reservoir by a steam pump.

About 800 quarts of .nilk are consumed daily, one-half being produced on the hospital dairy farm, and the remainder furnished by Mr. William B. Fort, a dealer at Trenton Junction. The milk from the farm is delivered twice a day and is divided equally among the four kitchens. milk furnished by Mr. Fort is brought about six o'clock in the morning. The kitchen employees transfer the milk from the contractor's cans to ten-quart cans, which are cleaned daily with hot water and soap. contractor's cans are left at the kitchens and are washed and dried in the same manner, and returned the next day. The milk is stored in refrigerators attached to each kitchen at a temperature of 50 degrees Fahrenheit. In addition to the milk, all of the refrigerators contain fresh and salt meats, cooked and uncooked vegetables, lard, eggs and cheese. The ice boxes are constantly visited by the kitchen employees, either to deposit the remains of victuals from the dining rooms after meals, or to get materials for cooking and place fresh supplies. Some of the milk cans were covered and some uncovered. Mr. Fort receives his supplies from the following producers, whose premises I have visited, and of which I append detailed reports: Samuel B. Bainbridge, Hopewell Township, Mercer county, 90 quarts; Andrew H. Burroughs, Hopewell Township, Mercer county, 150 quarts; William Hildebrandt, Hopewell Township, Mercer county, 70 quarts; John C. Green, Ewing Township, Mercer county, 75 quarts; Jerry Martin, Hopewell Township, Mercer county, 100 quarts. These producers cart their milk to Trenton Junction in cans which have been previously washed at the hospital kitchens, and as many cans as are needed for the day are transferred to Mr. Fort's wagon. He carts it at once to the hospital, a mile distant, where it is left at the kitchens, and the clean empty cans of the previous day are gathered up and returned to Mr. Fort's premises, where they are placed on racks in the open air until the next morning, when the producers receive them to be refilled. Altogether the milk is carted an approximate distance of five miles.

#### STATE HOME FOR GIRLS.

The State Home for Girls is controlled by nine trustees appointed by the Governor. The members of the present board are: Thomas P. Fay, Mrs. Frederick Johnson, A. D. Carnagy, John D. Rue, Thomas B. Holmes, Martin C. Ribsam, Dr. Madena De Hart, Mrs. Lydia G. Bergen and Mrs.

Stewart Hartshorne. 'This board appoints the superintendent of the Home, Mrs. Elizabeth V. H. Mansell being now the encumbent of that office. The buildings are located just outside the limits of the city of Trenton, in Ewing township, Mercer county. There are at present one hundred and seven (107) girls confined in the Home, making, with the officers and servants, a total population of 127 people. The food supplies are purchased weekly by the chairman of the purchasing committee and the superintendent, from Trenton merchants, the patronage being distribute among the different dealers. Connected with the institution is a farm of eighty acres, on which are grown most of the vegetables used. The three kitchens, one in the east wing, one in the west wing and one in the cottage, are equipped with ranges, stationary steel steamers for cooking meat and vegetables, porcelain sinks and all necessary dish washing arrangements. The rooms are of ample size, and the floors, walls and all appliances were clean at the time of inspection, no unpleasant odors being noticeable. Adjoining the cottage kitchen is a pantry 7x12x14 feet, with a refrigerator, which at that time contained cooked and uncooked meats and vegetables, and milk in uncovered vessels. The temperature of the refrigerator was from 60 degrees to 65 degrees F. The store room on the same floor contained barrels of sugar, vinegar, firkins of oleo, soaps and a general line of groceries. The room was light and clean. The bakery is in the basement of the west wing, and contains an oven with a capacity of seventy-two loaves. The walls and ceilings were freshly limewashed, and the cement floor was clean. The kitchen in the west wing is 50x25x10 feet, and rather dark. The range and the copper coffee urns were bright and shining, and the walls and cement floor were clean. The pantry, adjoining, contains a refrigerator in which were stored cooked and uncooked meats, vegetables and uncovered milk The temperature was 65 degrees F. The east wing kitchen is  $50 \times 20 \times 15$  feet. The officers' food is prepared and cooked in this kitchen, as well as that of some of the girls. A room in the rear contains two steam boilers for vegetables, potatoes, etc., and adjoining this is a room 10x18x15 feet, with a refrigerator 4x7x8 feet, containing meat, vegetables, cooked and uncooked and milk. temperature was 60 degrees F. All the rooms and utensils were clean. The water supply is obtained from two tube wells 150 feet deep, over which are placed Dean pumps, forcing the water to a tank which supplies all the buildings, through pipes. The daily consumption of milk is about 100 quarts, two-thirds of this being produced on the school farm, and the remainder furnished by the Mercer Dairy Company, of Trenton. The milk from the dairy farm is taken, as soon as drawn from the cows, to the institution kitchens, where it is poured into small cans and placed in the refrigerators. The milk furnished by the Mercer Dairy Company is produced on the farm of Mr. Frank Weart, in Ewing township. Mr. Weart sells the Company about one hundred quarts daily. The morning's milk is kept at the farm until after the noon milking and is then carted to Trenton, a distance of about three miles. The temperature of the milk, on arrival at Trenton, is about 60 degrees F. The required amount ordered for the day by the superintendent of the home is then measured out and

taken to the institution by Mr. Weart, the producer, on his return home. His farm is located near the institution. A record of the inspection of his dairy is herewith appended.

The following are the menus furnished to the inmates of the Home on two date: They are fairly representative of the daily dietary: September 27, 1904: Breakfast, bread and butter, tomatoes, coffee, milk; dinner, bean soup, apples, bread and butter; supper, rice pudding, bread and butter. October 6, 1904: Breakfast, bread, fried potatoes, tomatoes, coffee, milk; dinner, lamb stew, pickles, bread; supper, bread, tomatoes, ginger cake, milk, tea. The food supplies found on hand at the time of inspection were sound and of good quality. Samples of lard, vinegar, molasses and milk were taken for analyses. No case of a contagious disease, other than measles or mumps, has occurred at the Home for at least six years.

# MANUAL TRAINING AND INDUSTRIAL SCHOOL FOR COLORED YOUTH.

This school is located in Burlington county, one-half mile southwest of Bordentown, and is under the control of the State Board of Education, being supervised by a committee of which Mr. William B. Forbes is chairman, James M. Gregory is principal and Fanny E. Gregory the preceptress. There are at present one hundred and seven persons maintained within the buildings, of whom ninety-six are pupils-thirty-four boys and sixty girls—besides twelve instructors and one cook. Connected with the school is a fertile farm of two hundred and sixty (260) acres, which, with the exception of fifty acres, is sub-let to private persons. On the acreage retained by the State, turnips, sweet and round potatoes, tomatoes, garden vegetables and fruits are grown, a considerable quantity of them being canned by the students for winter use. The food supplies are purchased by the principal, and are bought in rather small quantities from Bordentown, Philadelphia and Trenton merchants. The quantity of perishable food on hand at the time of the inspection was very small, no refrigerators being provided for the school, which makes it impossible to keep such goods longer than a few hours before cooking. The meats are ordered from a local butcher in Bordentown, and are cut by him in such a way as to best conserve the daily menu. The water for all purposes is drawn from a dug well, located one hundred feet from the river bank, on high ground, and twenty feet east of the old "Ironsides" mansion. It is walled up eight inches above the surface, and covered by a tight board platform. The kitchen is in the basement of the new brick administration building, and is a room 18x25x12 feet, having a fine range, an assortment of ordinary cooking utensils and serving tables. An adjoining room has a dresser for clean dishes and sinks for dish washing. The dining room, on the opposite side of the hall, is 25x60x12 feet. These rooms have cement floors. Two cows, belonging to the institution, furnish all the milk used in the school, which is about fifteen quarts daily. The food stuffs on hand at the time of inspection consisted of bread, butter, lard, coffee in the bean, tea,

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oatmeal, sweet and round potatoes, turnips, vinegar, molasses, sugar, canned tomatoes, corn, beans, fruits and jellies. No contagious disease has ever occurred among the pupils or teachers of this institution, so far as my informant had knowledge.

#### SCHOOL FOR THE DEAF.

The buildings of the School for the Deaf for the care and instruction of deaf mutes are located on Hamilton avenue, Trenton. The school is under the control of the State Board of Education. The officers in active daily service at the school are: Professor John P. Walker. Superintendent; L. T. Meyers, Matron; Thomas F. Hernon, Steward. There are 137 pupils enrolled for the present year, 86 of whom are boys and 51 girls. The food provision is bought principally from Trenton merchants, and is contracted for twice a year, the lowest responsible bidder receiving the contract. At present the supplies are being furnished by the following firms: Beef, lamb and veal, Armour & Company, Trenton; fresh fish, J. M. Atwood. Trenton; milk, Samuel Heath, Ewing Township, Mercer County; ice (manufactured) Hygeia Ice Company, Trenton; groceries, spices, dried fruits, canned goods, etc., L. Lehman & Company, Trenton. Oysters are used about twice a year, and are always made into a stew, never being eaten raw. About 100 quarts of milk are purchased daily, from Mr. Samuel Heath, the present contractor. The milk arrives at the school about nine or ten o'clock in the morning and is taken to the basement, where it was placed, at the time of the inspection, in a refrigerator, 6x4x8 feet, in the hall in the rear of the store room. The box contained one twenty-quart can and two uncovered earthen dishes of milk, ten inches in diameter and four inches deep. There were also in the refrigerator two firkins of lard, two of butter, a box of cheese, a crate of eggs and several paper boxes of dried currants. The temperature of the ice box was 45 degrees F. The servants' dining room, adjoining the kitchen, contains a refrigerator 5x3x8 feet, in which were stored, at the time of inspection, four open cans of milk, each holding about twelve quarts. These were surrounded by various cooked and uncooked articles of food, among which was a quantity of lard, chopped ham, tomatoes whole and stewed, eggs and fat drippings. The temperature was but 50 degrees F. The kitchen, a room 24x36x9 feet, is in the basement and is furnished with range, two serving tables, and two portable copper-jacketed boiling kettles for sauces and stews. The floors and walls were clean, and no unpleasant odors were present. The drinking water, from city mains, is kept in tanks holding 50 quarts each, in rooms set apart for washing. The girls' room is in the basement and contains seven wash bowls, looking glasses, combs and brushes. The boys' room is on the first floor and has nine wash bowls and a sink. The drinking water is drawn through a faucet from each of the tanks. A large piece of ice was floating in each tank. A common drinking cup, chained to the tank, is used by the pupils in each room. In the hall in the rear of the storeroom there is a refrigerator 8x9x8 feet, which is kept for the meats, fresh and smoked, and also contains grapes, apples, beets, cabbage, tomatoes and

fruits. The temperature at the time of the inspection was 40 degrees F. The storeroom is in the basement and measures 25x25x9 feet. It is clean and well ventilated, and contains stores of groceries, spices, molasses, vinegar, syrup, and the following brands of canned vegetables: Peas, "Magnus," Fredonia Preserving Co., Fredonia, N. Y.; peas, "Schuyler," Hemmingway Preserving Co., Auburn, N. Y.; corn, "Golf," Rome, N. Y.; corn, "Clipper," Baltimore, Md.; string beans, "Dog's Head," Baltimore, Md.; tomatoes, "Ocean View," Lewes, Delaware.

No outbreak of contagious disease has occurred in the school until the last school year, when thirty cases of scarlet fever developed among the pupils. No cause was discovered for the outbreak, except that the disease was prevalent in the city at that time, and the pupils, being allowed to mingle with outside children, may have brought it into the school in that way.

# STATE NORMAL AND MODEL SCHOOLS.

The school buildings and boarding halls of the Normal and Model Schools are located in Trenton and are under the control of the State Board of Education, special supervision of them being entrusted to a committee on buildings. The following officers appointed by the Board are in charge of the several departments: James M. Green. Ph. D., principal; J. S. Neary, steward; C. D. Provost, matron. At present 442 pupils live in the boarding balls, 60 being boys and 382 girls, besides a corps of officials and servants. The dietary of the institution consists of salt meats, fresh and oysters, fresh and salt fish. potatoes. bread, butter, coffee, tea, fresh vegetables in season, dried fruits, celery, vegetables in tin, molasses, syrup, vinegar. lard, cottolene, milk and ice cream. The steward has full authority to purchase all food supplies in such quantities as he sees fit, of any dealers he pleases and without advertising for the lowest bid. The supplies are being furnished at present by the following Trenton merchants: Meats, Armour Packing Company, Armour & Company, S. F. Stein; groceries, J. H. Blackwell & Company, D. P. Forst & Company, Case. Rose & Company, Cole & Taylor; vegetables and fruits, C. Matthews, Fred. Holtz; oysters, Irvin Banks; milk, J. H. Longstreet, Bordentown.

All new supplies are received in the rear of the main boarding hall and placed in the cellar, in rooms arranged for that purpose. Vinegar, molasses, syrups, canned vegetables and dried fruits are stored in a room which has been recently limewashed and is light and well ventilated. Meats, when received, are carried to a room in the front cellar and placed in a refrigerator 9x8 feet, which I found to be clean, and furnished with a cutting table on which all meats are cut by the chef for the daily menu. The table also was clean and the room well ventilated. All the butter supply is made at the Amwell and Spring Farm creameries in Hunterdon County. The oysters are purchased on the day they are

used and opened by the dealer. They are only used in a cooked state, The Hygeia Ice Company supplies the hall with manufactured ice. water is drawn from the city mains and is never used without boiling. after which the temperature is lowered by placing ice in the water. Thirty-five quarts of cream are furnished once a week by T. B. DeCou & Company, Trenton dealers, and is made into ice cream in the bake shop by the school baker. The following are the brands of canned goods now in stock in the school stores: Lima beans, Golden brand, packers William McKinley Canning Co., Lenox, N. Y.; Blossom brand, packers Blossom Canning Company, Rome, N. Y. Peas, Standard Early June brand, packers A. Brakeley, Bordentown, N. J. Corn. Purity brand, packers Chillicothe Canning Co., Chillicothe, Ill.; Golden brand, packers William McKinley Canning Co., Lenox, N. Y. Asparagus, swan brand, packers California Fruit canning Association. Stringless beans, Hamburg brand, packers Hamburg Canning Company, Hamburg, N. Y. Tomatoes, Ajax brand, packers Anderson Canning Co., Hightstown, N. J.

When the milk is received at the kitchen door at 8 A. M., it is poured from the dealer's cans into the twelve-quart cans owned by the school. Four of these are taken to the pantry on the first floor and placed for immediate use in a refrigerator which also contains butter and eggs. This refrigerator was clean and odorless, and had a temperature of 54 degrees F. at the time of the inspection. The remainder of the daily supply is carried to the cellar and placed in a refrigerator 12x7 feet, to be drawn upon as needed. The temperature of this refrigerator was 58 degrees, and in addition to the milk is used for the storage of cooked meats and vegetables. A strong odor of vegetable and animal foods was noticeable on entering the box. The floor and sides were clean, but the space for ice storage is too small to secure a sufficiently low temperature. A change should be made in this system, and another refrigerator provided, where the milk could be kept separately, at a lower temperature. About 175 quarts of milk is the daily consumption. The students are allowed all the milk they wish to drink at breakfast and lunch, and it is also used in a raw state on fruits and cereals. The remainder of the milk is cooked. The milk is produced on the farm of M. J. H. Longstreet. below Bordentown, and furnished by him to the school. It receives better care on this farm than the average milk, as is shown by the record of a recent inspection herewith appended. The milk is supplied daily in the following quantities: Sunday, 120 quarts; Monday, 216 quarts; Tuesday, 144 quarts; Wednesday, 192 quarts; Thursday, 168 quarts; Friday, 144 quarts; Saturday, 144 quarts. The kitchen, which is 25x60x15 feet, is an extension south and east of the two dining rooms on the same floor, and is equipped with ranges, grills, copper-jacketed kettles for soups and stews, steel potato boiler, zinc covered serving table, copper-faced soapstone sinks and all necessary dish washing appliances. The room is well ventilated, and at the time of inspection was clean, neat and odorless. Samples of molasses, syrup, vinegar, milk and lard were taken from the school stores and taken to the laboratory for analyses, a report of which has been made and is now on file.

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# REPORT ON THE FOOD SUPPLY OF STATE INSTITUTIONS.

By D. C. Bowen, Assistant Inspector of Food and Drugs.

To the Board of Health of the State of New Jersey.

Gentlemen:—In accordance with instructions I have made examinations of the food supply of the following State institutions: New Jersey State Home for Boys, New Jersey State Viliage for Epileptics, New Jersey Reformatory, New Jersey Home for Disabled Soldiers, State Home for the Care and Training of Feeble-Minded Women, Home for Disabled Soldiers, Sailors and Marines and their Wives, and the New Jersey Hospital at Morris Plains.

The New Jersey State Home for Boys, located at Jamesburgh, and inspected October 31, 1904, has four hundred and thirty-two inmates, Mr. J. C. Kalleen is the superintendent. The milk supply of this institution is produced from a mixed herd of cows kept on the institution farm. cows are pastured in summer and housed in a two-story brick cow barn during the winter. The stable has a floor space 110x18 feet, with a tight board ceiling eight feet high and contains about 15.840 cubic feet of air space, or 511 cubic feet for each of the thirty-one cows stabled therein. There are six windows 18x18 inches and three 24x48 inches, fitted with sliding glazed sash, and an opening through the ceiling into the hay loft. about 81/2x5 feet, making in all about 371/2 square feet of openings for light and ventilation in addtion to the doors. The stall floors are brick and the manure trench and floor in the passages in front and at the rear of the stalls are constructed of planks laid lengthwise of the stable. The side walls and ceiling are swept down once each month and lime washed four times each year. The second story of the building is used as a hay Manure is stored in the barn yard, adjoining the stable building, in which corn stalks are fed to the cows during the winter, and from which the manure accumulating therein is removed twice each year. The manure trench is graded to one end of the stable, so that urine and any liquid manure which passes through it falls u pon the ground beside the brick foundation wall. The solids, which accumulate upon the ground at this point, are removed about once in two months. is done by inmates of the institution under the supervision of an officer and when the pails are full the milk is poured into cans which stand during milking at one end of the passage in front of the stalls. The cans are kept covered and when milking is over they are removed to a light, clean, well ventilated room in the kitchen building, and the milk is here put into cans which are placed in a cooling box, the water in which is cooled by pipes connected with a refrigerator plant on the premises. utensils are washed in a wooden sink in which the water is heated by live steam. Most of the butter and lard consumed in the institution is made on the place and a large portion of the pork, mutton, veal and some of the beef is raised on the farm, and practically all of the vegetables and fruits used in the institution are produced on the farm. A new water plant is nearing completion which will furnish water from a

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well about eighteen feet deep, sunk on low ground bordering a brook that flows through the grounds, about one and one-quarter miles distant from the institution buildings. Extending from the well into the surrounding soil are several hundred feet of tile drains laid with open joints to increase the supply. A filter basin is also being constructed, beneath the ground surface, and connected with the well by a line of drain so that the water may be drawn from the brook, passed through the filter and drained into the well. Water is to be pumped from the well into a reservoir, large enough to hold one week's supply, located on elevated ground near the main buildings.

The following samples of foods were taken from the store room of the institution and sent to the State Laboratory of Hygiene for analysis: Cider, vinegar, lard, butter, syrup and molasses.

#### STATE EPILEPTIC VILLAGE.

In the New Jersey State Village for Epileptics, located at Skillman, inspection made November 4, 1904, I was informed by Dr. H. M. Weeks, superintendent, that there are now about one hundred patients, and when buildings which are now under construction have been completed there will be room to care for about one hundred and fifty patients. All of the milk used is produced on the village farm from a herd of forty-one graded cows, which are now stabled in a barn about 24x40x8 feet. The ceiling is formed by rails laid across beams and the loft is used for storing hay. The floor and mannure gutters are of wood and there is no drainage. There are two rows of stalls so arranged that the cows stand head to head, separated only by a narrow passage and the air space does not exceed 325 cubic feet per cow. There are six windows about 24x36 inches which furnish light and ventilation. Stable manure is stored upon the ground in the stable yard. I am informed by Mr. W. H. Schults, steward, that the use of this building will be discontinued for housing cows as soon the new brick dairy building which is now under construction has been completed. Mr. Bull, an employee, informs me that he is assisted by patients of the Village in the milking and that the milkers go from the work in which they may be employed at milking time and do the milking without first washing their hands or changing of garments. He states that the cows are brushed every morning and that the udders and teats are cleaned with a dry cloth before milking. When the pails are full they are emptied into cans which stand outside the stable door. The full cans are removed to a small clean, well lighted wooden building which stands some distance from the stable. The milk is here strained, cooled by flowing over a "perfection" cooler, placed in small cans and distributed to the various dwellings on the village The milk room is not supplied with hot or cold water, nor with appliance for sterilizing cans and utensils. The water supply is obtained from artesian wells, about four hundred feet in depth, and distributed under pressure to each building. Meats, provisions and groceries are purchased in the market and I am informed by the superinttendent that care is exercised in selecting the best grades of food for use in the institution.

The following samples of food were taken from the store room and sent to the State Laboratory of Hygiene for analysis. Molasses, lard. butter and cider vinegar.

# STATE REFORMATORY.

The New Jersey Reformatory is located near Rahway, and Joseph W. Martin is superintedent. On the day of this inspection, November 7, 1904, there were 310 inmates. The milk used in this institution is produced from eight cows which are stabled in a new two-story brick building 30x40x9 feet. The stable has a concrete floor with manure gutters which drain into the sewer. The building is well lighted by windows which may be opened for ventilation. The side walls and ceilings are smoothly finished. The second story is used for storing hay. The cows are cared for and milking is done by inmates of the institution detailed for that work. The colored man now assigned to the work informed me that cows are cleaned daily and that the hands of the persons who do the work are always washed before milking. About fifty quarts of milk are now produced daily which is divided into two parts directly after milking, and delivered to the two institution kitchens In the kitchen well about 18 feet deep, sunk in low ground bordering Matchaponix brook which I visited the milk was kept in an open vessel placed in a covered wooden sink, partly filled with water. In the new building, now under construction, in which the general dining hall and kitchen are to be located, provision is being made for adequate store rooms and a cold storage plant. The water supply for use in the institution is procured from the public supply of the city of Rahway. The following samples of food were taken from the store room of the institution and sent to the State Laboratory of Hygiene for analysis: Molasses, cider vinegar, extract of vanilla, oleomargarine and ground coffee.

#### HOME FOR DISABLED SOLDIERS.

In the New Jersey Home for Disabled Soldiers, located in Kearney, Peter F. Rogers, superintendent, there are five hundred inmates. One hundred and fifty quarts of milk are supplied daily, by Mr. John Hunkele, who conducts a dairy in Bellville. On the day this inspection was made, November 11, 1904, the milk was delivered at nine A. M. and it was still warm from the cows. When received the cans are placed in a large refrigerator in the basement in which other uncooked and cooked foods are stored, and the cans are returned unwashed to the dairyman. Following is a report of an inspection of Mr. Hunkele's dairy made November 12th, 1904: Name of dairyman, John Hunkele, Jr., Belville postoffice, Bellville township, Essex county; location of dairy, Spring Grove, Bellville; size of stable, 30x40x about 12 feet, attached to and opening into horse barn; cubic feet per cow, 515. Stable well lighted?—No, there are

10 windows 24x28 inches; two about 28x48 inches. Material, construction and drainage of floor.-The floors are plank with manure gutters graded so that urine flows from ends to center of building, thence through an open drain beneath the floor and is discharged and forms a filthy pool upon the ground at the side of the building. Method and frequency of cleaning.—The cattle are turned out shortly after the noon hour daily to go to the spring at the end of the lot adjoining the stable to drink. A cart is then placed at the stable door, the manure shoveled in and removed to the fields. Was stable clean at time of inspection?—No. Are side-walls, ceilings and ledges kept free from cobwebs and dust?-No; in the construction of the cow barn building paper was first nailed to the studding before the clap boards were nailed on. This paper forms the interior surface of the walls. It is torn in many places, is swelled from dampness, making a rough uneven surface and bespattered with manure. Except in spots made bare and white by the sows lapping up their food from the passage between the two rows of stalls the floors are covered with incrustations of dried manure. Ever lime-washed?-No. water supply for watering stock.—Spring at the bottom of the slope from the high ground on which stands the cow barn, horse stable and pens in which 60 hogs are kept. The distance from the spring to the hog pens is 100 feet; to barn and cow stable 190 feet, and the drainage from these buildings washes over the surface of the ground to and around the spring. Over the spot where the water flows from the ground a wooden box 21/2x4 feet and deep enough to set a 40-quart milk can in has been partly sunk into the polluted ground. From the side of the box an overflow pipe leads water into a wooden trough from which the cows drink and in which a flock of ducks, filthy from their search for bits of garbage in a pile of hog pen manure, were seen to take a prolonged bath. In coming to drink the cows sank deep into the oozy ground around the trough and the water which they drank was discolered by the filth from the aucks who preceded them to the trough. Sources of water supply for washing cans, bottles and utensils.—Dug well in dooryard 20 feet from house, said to be about 12 feet deep. The pump in the well is out of repair and no water could be drawn at time of this inspection. It was stated by Mr. Joseph Hunkele that since the pump has been out of repair water for washing cans and all other uses on the dairy has been procured from the spring described under question 12. Distance of well or spring from stable.—About 125 feet. Distance from manure pile.—About Distance from privy vault.—60 feet. Distance from other sources of contamination.—Hog pen 130 feet. Is well apparently liable to contamination?—The privy vault is a hole in the ground. Was sample of water taken for analysis?—Yes; samples from well taken Nov. 16, 1904; well marks 3,181; spring marks D-3,174. Number of cows.-33. State of health?—Said to be good. Ever examined?—The cows have not been examined since in the possession of Mr. Hunkele. It was stated that fresh cows are frequently brought into the herd which are said to be examined when brought into New Jersey from an adjoining state.

Were cows in a cleanly condition at time of inspection?—No; see photo. Amount, kind and quality of feed used,-Clover hay, corn stalks, brewers grains, bran, corn and oil meal. Cows pastured?—In summer. Manure, how and where stored?-Cow manure removed from stable to field. How frequenty removed?-Daily. Quantity of manure at time of inspection.-The hog pens adjoin the cow barn. The hogs are fed garbage and the manure is thrown from the pens into heaps upon the ground near the cow barn. The odor from the hog pens permeates the air in and around the stable buildings. How washed and dried?-Mr. Hunkele's son, who washes the cans, states that he first rinses the cans with well or spring water, then about a pail of warm water and a handful of carbonate of soda is placed into a can and the can scrubbed with a brush. The wash water is poured out and the can dried with a towel and inverted on a bench in a small building in the dooryard. Where are the utensils washed?-In the dooryard. Any appliances for sterilizing cans, pails and dippers?—No. Bottles—how washed and dried?—None used. Quantity of milk produced daily?—About 220 quarts. Are milkers' hands washed before milking?—So stated. Are clean garments put on?—No. Udders of cows regularly cleaned?-No. How?-When spattered with mud or dusty, are said to be wiped with dry cloth. When pail is full of milk what is done with it?-Poured into can. Where does the can stand?-In barn. Is can kept covered?—With cheese cloth strainer. Is milk cooled?—Part is. How?—Night's milk is placed in spring described under question 12. The cans containing the milk are set in the spring box and the lid closed down. Mr. Joseph Hunkele stated that it has happened that the overflow pipe stopped up and the water rose over the tops of the cans while in the spring. Morning's milk is delivered without covering, some five or six hours after milking. Where is milk stored?-In spring. How long is milk stored before being shipped?—Over night. Source of ice supply.-None used. If shipped, to whom, and where?-About 150 quarts to New Jersey Home for Disabled Soldiers, also retailed in Arlington and East Newark. Temperature of milk when delivered to customers?-This depends on temperature of air at time of delivery. from cans?—Entire quantity sold. Quarts sold in bottles?—None used. Ever run short?—Yes. If so, where is supply obtained?—From Dennis, Newark, and other dealers. How many persons handle the milk?— Three. All in good health?—So stated. Date of last sickness among persons on dairy premises?-None reported.

The water supply for the institution is from artesian wells about four hundred feet in depth. The following samples of food were taken from the store room of the institution and sent to the State Laboratory of Hygiene for analysis: Molasses, cider vinegar, lard, butter, extract of vanilla and milk.

A sample of milk taken from a full can in the refrigerator in the institution, prior to the date of this inspection, proved upon analysis in the State Laboratory of Hygiene to be below the standard required by law, and a sample taken from a full can in the possession of the dealer just

before delivering same to the institution, on the day of this inspection, also proved by analysis to be below the legal standard while another sample taken from a can partly full, from which the dealer was retailing, showed upon analysis to be above the standard required by law.

In the State Home for the Care and Treatment of Feeble-Minded Women, located in Vineland, inspected Nov. 17, 1904, Mary J. Dunlap, M. D., director and medical superintendent, informs me that there are about one hundred and forty patients. The milk supply is produced on the premises from seven cows which are housed in a two-story stable building in which a room about 42x25x9 feet is fitted for a cow stable. The floors are concrete, with a smooth hard surface, and urine gutter graded to a central point of discharge into a drain connecting with a brick and cement manure vault located about 60 feet distant from the stable building. When the vault is full its contents are removed and spread upon the farm land. The stable is well lighted by four large windows and the air space exceeds one thousand cubic feet per cow. The stable floor and sidewalls at the rear of the stalls were clean but not so the wooden partitions and legs of the two wooden milking stools. Mr. Alexander Hardy, an employee in charge of the dairy, informs me that the cows, whose coats were clean, are curried and brushed daily and that the udders and teats are brushed off by the milker, with the bare hands, before each milking. The cows are pastured in the summer and they are turned out daily for exercise during the winter in a clean yard adjoining the stable building. After milking the milk is delivered to the kitchen in the main building. After milking the milk is delivered to the open vessels and set in the refrigerator. 'The refrigerator is a small sized room partly constructed beneath the ground surface with air ducts communicating with the ice chamber above. It is used for general refrigerating purposes and the air in it has the characteristic odor invariably found in refrigerators in which meats together with cooked and uncooked foods are kept. The utensils used in milking and handling the milk are washed in the kitchen. The water supply is from the public supply of the borough of Vineland. There is a well in the yard at the front of the main building, but I am informed that water from it is not used. Fruits and vegetables raised on the tilable land are consumed in the institution and groceries, meats and provisions are purchased in quantities as the needs of the institution require. The following samples of foods from the store room of the institution were sent to the State Laboratory of Hygiene for analysis. Molasses, vinegar, syrup, lard and butter.

# SOLDIERS' HOME, VINELAND.

In the Home for Disabled Soldiers, Sailors and Marines and their Wives, located at Vineland, Mr. J. Wanser, commandant, informs me, on the day of this inspection, Nov. 17, 1904, there were one hundred and thirty inmates. About sixty quarts of milk is furnished daily, which is produced and delivered by Mr. Edward L. Bolles. When the milk is received the cans are now placed in a store room in the basement and

milk is dipped from them as required for use. During warm weather the cans are said to be placed in a refrigerator in which other food is also kept. The cans are returned to the milkman unwashed. Following is a report of an inspection of the dairy on which the milk used in this institution is produced:

Date of inspection, November 17, 1904. Name of dairyman, Edward L. Bolles, postoffice, Vineland, Landis township, Cumberland county, Location of dairy, Spring Road, Vineland. Size of stable.—45x32x6 feet in which eleven cows and five horses are stabled. Cubic feet per cow.-About 600. Stable well lighted?—No; there are five windows 21x28 in., from which full benefit is not derived on account of numerous partitions in stable. Material, construction and drainage of floor.-Wooden floor laid directly upon ground surface, is rough and uneven consequentlly difficult to clean. Wooden manure gutters. No drainage. Method and frequency of cleaning.—Manure thrown out into stable yard daily. Was stable clean at time of inspection?—Contained little manure. Are sidewalls, ceilings and ledges kept free from cobwebs and dust?-No: the building is old and in very poor repair and dust and cobwebs abound. Ever lime-washed?-No. Sources of water supply for watering stock.-Driven well 45 feet from stable buildings and manure pile, 32 feet deep. Sources of water supply for washing cans, bottles and utensils.—Driven well 45 feet deep located beneath shed porch at rear of dwelling. Distance of well from stable.--About 200 feet. Distance from manure pile.--About 225 feet. Distance from privy vault.—There is no privy vault; metal pails are used. Distance from other sources of contamination.—Agracultural tile drain from beneath sink, five feet from well, discharges waste liquids upon the ground about 32 feet distant from well. Is well apparently liable to contamination?—There are markings of waste liquids upon the surface of the ground near well and sink drain is leaky. Was sample of water taken for analysis?—Yes. Marks.—D-3,192. Number of cows.-Eleven. Breed.-Grade. State of health.-Said to be and apparently are in good health. Ever examined?—No. Were cows in a cleanly condition at time of inspection?—Yes. Amount, kind and quality of feed used.—Insilage, corn stalks, hay, bran, beet pulp, gluten food and oil meal. Cows pastured?-Yes. Manure, how and where stored?-Adjoining stable in yard. How frequently removed?—About once each month. Quantity of manure at time of this inspection.—About fifteen loads. Utensils, how washed and dried?—Cans washed with warm water and soap at the dwelling. The cooler is washed in a small room, near the stable building, which is used for a well house and milk room. After the milk has been cooled the water in the cooler, the temperature of which has been slightly raised by the warm milk passing over it, is taken to wash the cooling surface. The pails, cans and cooler are rinsed with well water before use. Where are the utensils washed?—At dwelling and in milk room. Any appliance for sterilizing cans, pails and dippers?-No. Bottles-how washed and dried?-None used. Quantity of milk produced daily?—About 70 quarts. Are milkers' hands washed before milking?—

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Usually, especially if much soiled. Are clean garments put on?—No. Udders of cows cleaned?-Yes. How?-Udders and flanks brushed with dry cloth. When pail is full of milk what is done with it?—Taken and poured over cooler. Where does the can stand?—In milk room beneath Is can kept covered?—No. Is milk cooled?-Yes. How?-Run over Champion areator which contains well water as the cooling medium. How long after milking?—Directly. To what temperature?— Not known. Is milk bottled?—No. Where is milk stored?—Can sits in tub of water near well. How long is milk stored before being shipped?-Over night. Source of ice supply?-None used. If shipped, to whom, and where?-Delivered once a day, about 6.30 A. M., to Home for Disabled Soldiers, Sailors or Marines and their Wives, at Vineland. perature of milk when delivered to customers?-Not known. Quarts sold in cans?—About fifty quarts. Quarts sold in bottles?—None. Ever run short?-No. Date of last sickness among persons on dairy premises?-None reported.

The water supply for the institution is from the public supply of the borough of Vineland. The products raised on the small amount of tilable soil connected with the Home is used therein and the general supply of groceries, meats and provisions are purchased in small quantites principally from local dealers.

Samples of the following foods were taken from the store room and sent to the State Laboratory of Hygiene for analysis: Lard, butter, vinegar and sliced dried beef.

#### STATE HOSPITAL FOR INSANE.

At the New Jersey Hospital at Morris Plains on the day of this inspection, November 17th, 1904. there were 1,601 patients. Mr. M. K. Everitt is warden. The institution has its own dairy, which produces all the milk consumed there. The cattle are examined at frequent intervals by a veterinarian and when new cows are added to the herd they are first tested with tuberculin. The dairy barn contains a floor space for cows 87x60 feet and has smooth plastered walls, above the wainscoting, and ceiling ten feet high. All interior woodwork is smooth and painted. In addition there are feed rooms, closet rooms for milkers, suits and stools, a room for cooling and storing milk, and the upper story of the barn is used for storing hay, which is brought into the cow stable through an opening in the ceiling. The stable is well lighted and affords about 700 cubic feet of air space for each of the 72 cows which it accommodates. The floors in the stalls are of wood and in all other parts of the building, together with the manure gutters and feeding trough's, are The manure gutters are drained to cement manure vaults located some distance from the building and the vaults are drained to the sewer. The floors were being scrubbed with a hose and brooms at the time of this inspection and I was informed that this method of cleansing is practised daily.

The dairy barn not being large enough to house all the cows, one of

the two open sheds which adjoin the exercising yard, has been enclosed, fitted up and is now in use as a cow stable. There is about 550 cubic feet of air space for each of the thirty-four cows stabled in this building and the exposed frame work gives a rough interior finish, a style of construction which is difficult to keep clean and free from dust. In this barn the floors are of wood and cement and stable manure is dumped upon the ground at one end of the building.

The cows were not in the cleanly condition, however, which might be expected from the clean appearance of the stables, a fact which was partly explained when some of them were seen to lie down on a spot in the exercising yard, where corn stalks are fed, and where the ground has become wet and unclean from the accumulation of manure. Mr. Wm. Nunn, head dairyman informed me that the cows are never cleaned, which was quite apparent from the manure to be seen adhering to their Mr. Nunn further stated that the milkers wash their hands before milking and that the udders are cleaned by wiping with a dry cloth. The milkers wear washable white overalls and jackets, which are changed several times each week, but clean garment are not put on before each milking. After milking, the cans, which stand in the stable tuilding during the operation, are taken to the milk room in the stable building and placed in a concrete vat, through which spring water flows and to which ice is added, to cool the milk. The covers are tilted on the cans and the vat has a wooden cover. From the vat room the milk is taken to the hospital buildings. In the main building, which I visited, the cans when received from the dairy are placed in a cooling vat in a room set aside for this purpose in the basement. Here the covers also remain tipped on the cans and in this room milk is dipped from the forty quart cans in which it is received, into coverless pitchers and mugs, holding one or two quarts each, in which it is sent to the dining halls or wards for use. The cans and utensils are washed in what is termed the "pot room" in the basement in which the pots and pans from the kitchen are also washed. The washing is done in a wooden sink, supplied with running hot and cold water, to which soap powder is added and the cans are scrubbed by hand, rinsed, wiped, inside and out, with a towel and placed in racks in the wash room where they remain uncovered for several hours before being returned to the dairy barns. The basement room in which the cans are washed is dark, and artificial light is necessary at all times and in it there is an odor peculiar to an underground room when used for such purposes. About nine hundred quarts of milk are daily produced and consumed in this institution and for its proper handling, care and protection against contamination the need of a suitable dairy room, separated and apart from other buildings and suitably equipped, in which the milk can be quickly cooled, bottled and stored is apparent. Proper facilities for washing the cans and utensils are also lacking, which, to meet the reasonable requirements of an institution of this character , should embrace appliances for the sterilization of all receptacles in which the milk is placed.

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The water supply is obtained from four reservoirs located on grounds belonging to the institution, on one of which the ice supply is harvested. A sample of water taken for analysis was drawn from a tap in the main building which is supplied from the upper reservoir. Sample marked D-3.204.

Beef is bought on the hoof and slaughtered on the institution grounds but the hogs which are raised thereon are sold alive.

A large amount of farm and garden produce is raised on the grounds. Groceries are purchased in quantities to meet the requirements of the institution. The following samples of food were taken from the store room in the institution and forwarded to the State Laboratory of Hygiene for analysis: Extract of vanilla, extract of lemon, butter, ground mustard, ground pepper, ground cloves, molasses, syrup, ground alspice, lard and milk.

# Dairy Inspection Records.

The following records made by D. C. Bowen, one of the assistant inspectors of food and drugs, of the inspection of dairy premises from which the milk supply of Shrewsbury Township is obtained, show the character of the work.\* Letters of information are sent in cases where the water supply is found to be polluted, and all of the facts set forth in the reports are sent to the local Board of Health of the locality where the milk is sold.

Date of inspection.—August 8th, 1904. Name of dairyman.—Borden Postoffice, township, county.—Red Bank, Shrewsbury Hance, owner. Township, Monmouth Co. Location of dairy.—Fairhaven. Size of stable. —No. 1, 12x52x7 feet (13 cows); No. 2,  $14x8x6\frac{1}{2}$ , (3 cows). Also three cows kept in horse stable. Cubic feet per cow.—No. 1, 336; No. 2, 243; No. 3, ample. Stable well lighted?—No. 1, three windows 18x24, plus 4 inch wide openings over top of doors. No. 2, no window openings. Materia, construction and drainage of floor.--Front of stalls under animals fore feet is earth floor rear of stalls under hind quarters of animals boards are laid directly on ground surface with slope to drain under doors into barnyard. Method and frequency of cleaning.—Solids daily removed but floors and sidewalls were coated with dried manure. stable clean at time of inspection?—No, fresh manure in stalls. Are sidewalls, ceilings and ledges kept free from cobwebs and dust?-No. Ever lime-washed?—No. Sources of water supply for watering stock. -Well adjoining stable buildings; pools of drainage in barnyard. Sources of water supply for washing cans, bottles and utensils.--Well five feet from corner of house, covered with board floor with wooden pump box and drain leading to street gutter. Distance of well or spring from stable.—117 feet. Distance from manure pile.—117 feet. Distance from privy vault.—119 feet. Distance from other sources of contamination.— Waste liquids thrown into pump box fall upon ground on borders of well. Is well apparently liable to contamination?—Yes, by waste liquids which flow upon the ground near well. Was sample of water taken for analysis? -Yes. Marks.-D-2,075. Number of cows.-19. State of health.-Apparently good. Ever examined?—No. Were cows in a cleanly condition at time of inspection?-Not seen. Amount, kind and quality of feed used.-Bran and corn meal. Cows pastured?—Yes. Manure, how and where stored?—In stable yard. How frequently removed?—Not learned. Quantity of manure at time of this inspection.—About 50 or 60 wagon loads. Utensils, how washed and dried?—Warm water and soda, rinsed with hot water

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<sup>\*</sup>Cuts showing location of wells liable to pollution on dairy premises will be found in folder.

and placed in open air, inverted, to drain and dry. Where are the utensils washed?—In open shed at dwelling. Any appliance for sterilizing cans, pails and dippers?--No. Bottles--how washed and dried?--None used. Quantity of milk produced daily?—About 150 quarts. Are milkers' hands washed before milking?—No. Are clean garments put on?—No. Udders of cows cleaned?-Not regularly. If badly solled washed with water and When pail is full of milk what is done with it?-Poured over aerator and cooler into can. Where does the can stand?-Under shed outside of stalls. Cooler is placed on shelf constructed at one end of shed, just outside of stalls, on border of barnyard, so that milk runs from cooler into can which sits upon ground directly under pigeon roost. Is can kept covered?---With cheesecloth strainers. Is milk cooled?---Yes. How?—Run over cooler filled with well water. How long after milking? -Directly. Is milk bottled?-No. Where is milk stored?-Not stored. Source of ice supply.-None used. If shipped, to whom, and where?-Milk delivered to Charles McCloskey, Red Bank, twice daily. Date of last sickness among persons on dairy premises?-None reported.

Date of inspection.—August 8th, 1904. Name of dairyman, Terence J. Mulligan, tenant. Postoffice, township, county.—Fairhaven, Shrewsbury Township, Monmouth Co. Location of dairy.—Fairhaven. Size of stable. -20x24x7. Eight cows and one horse are kept in stable. Cubic feet per cow.—About 373 for each animal kept in stable. Stable well lighted?— No: one opening 2x3 with solid board shutter. Material, construction and drainage of floor.—Earth floor with a small wooden gutter embedded in polluted earth floor, terminating under pile of manure outside of stable. Method and frequency of cleaning.—Floor covered six to twelve inches deep with soft manure. Mr. Mulligan preceded me into the stable and covered the manure on the floor with clean hay. Was stable clean at time of inspection?-No. Are sidewalls, ceilings and ledges kept free from cobwebs and dust?-No. Ever lime-washed?-One-half of stable has been recently. Sources of water supply for watering stock.—Brook in pasture and well near stable building. Sources of water supply for washing cans, bottles and utensils.—Dug well located about 60 feet dwelling, covered by leaky board platform upon which a washtub filled with milky water stood. Distance of well or spring from stable.-170 feet. Distance from manure pile.—170 feet. Distance from privy vault.— 135 feet. Distance from other sources of contamination.—70 feet from chicken vard. Is well apparently liable to contamination?—Waste liquids thrown upon ground between house and well. Was sample of water taken for analysis?-Yes. Marks.-D-2,076. Number of cows.-Eight. State of health.—Apparently good. Ever examined?—Yes. whom?—Dr. Cattanagh. Date of last examination?—July, 1904. cows in a cleanly condition at time of inspection?—Not entirely. Amount, kind and quality of feed used.—Wheat shorts and corn meal and in winter heet tops: Cows pastured?-Yes. How and where manure stored?-On ground adjoining stable. Quantity of manure at time of this inspection .-About 3 loads. How utensils washed and dried?—With warm water, gold dust and rinsed with cold water. Where are the utensils washed?-In

yard front of dwelling. Any appliance for sterilizing cans, pails and dippers?—No. Bottles—how washed and dried?—Same as cans. tity of milk produced daily?—About 70. Are milkers' hands washed before Are clean garments put on?-No. Udders of cows milking?—No. cleaned?-Not regularly. How?-If badly soiled rubbed off with cheese cloth. When pail is full of milk what is done with it?-Poured into cans. Where does the can stand?—It was stated that except in stormy weather in summer cows are kept and milked in pasture. In winter the can is said to stand just outside of stable door during milking. Is can kept covered? -With cheesecloth strainer. Is milk cooled?-Yes. How?-Place cans in tubs of well water. How long after milking?-Directly. temperature?—To that of well water. Is milk bottled?—Yes. How long after cooling?-About one and one-half hours. Where is milk bottled?-In milk house. Where is milk stored?—Nights milk in refrigerator. How long is milk stored before being shipped?-Delivered once daily. Source of ice supply.--Monmouth Ice Company. If shipped, to whom, and where?-Retailed in Fairhaven and Oceanic. Temperature of milk when delivered to customers?-Not learned. Quarts sold from cans?-About twenty quarts. Quarts sold in bottles?—About fifty quarts. Ever run short?-Yes. If so, where is supply obtained?-None purchased. How many persons handle the milk?—Two. All in good health?—So stated. Date of last sickness among persons on dairy premises?—None reported.

Re-inspection, made this day, of the dairy premises occupied by Mr. Francis Mulligan, Fairhaven, Shrewsbury Township, shows that the leaky covering has been removed from over the well from which a sample of water was taken for analysis on August 25th, 1904, and a flagging stone covering is now being fitted over the well. September 29th, 1904.

Date of inspection.—August 11, 1904. Name of place.—Oceanic. Name of dealer.—Frederic Dietz. How is the milk stored?—Bottled milk placed in ice house, cans placed in metal lined cooling box containing iced How are cans, bottles and utensils washed?-Warm water and soda. Rinsed in cold water. Any appliances for sterilizing cans, bottles and utensils?-No. Quantity of milk sold daily.-About 250 quarts. How is milk cooled?—Cans kept in cooling box until milk is bottled or taken on delivery wagon. Temperature of milk when sold.-Not known. Where is the regular supply of milk obtained? George Schanck, Holmdel, Thomas Tyndall, Rimson Road; George G. Ivins, Rumson Road; Mr. Lufborough, Locust Point, Middletown Township. When short, where is supply obtained?-None bought from other dealers. How many persons handle the milk?-Three. Are all in good health?-So stated. Date of sickness on premises.—None reported. Source of ice supply.—Parmlys pond and Monmouth Ice Co. Source of water supply.-Dug well located beneath kitchen floor. Sink drain discharges upon ground and runs over the surface from border of well. Was sample taken for analysis?—Yes. Marks.-D-2.077.

The kitchen shed and ground surrounding rear of dwelling is uncelan. Small shed structure in which bottles are washed and milk is bottled stands in yard. This box like structure has rough board floor laid directly upon the ground surface and the four hundred chickens running at large about the place have access to this house and they perch upon the milk cans and other objects standing in door yard. Mr. Dietz informs me that he supplies about 50 quarts of milk daily to the Lexington Babies Hospital, an institution located in Oceanic.

Re-inspection of the milk depot premises occupied by Frederick Deitz, Oceanic, Shrewsbury Township, shows that there has been no change made in the water supply on said premises for washing milk cans and utensils. I was informed by Mrs. Deitz while on the premises that Mr. Deitz had sold the milk business to Mr. George Hunt, Little Silver, and that after September 30th, no more milk will be stored or sold on the premises occupied by Mr. Deitz. September 29th, 1904.

Date of inspection.—August 11, 1904. Name of dairyman, W. J. Hutchinson, owner. Postoffice, township, couunty -Sea Bright, Shrewsbury, Monmouth Co. Location of dairy.—Rumson Road. Size of stable.—About 16x40, in which two cows and two horses were stabled. Stable well lighted?—Yes. Cows not placed in stable during summer. construction and drainage of floor.-Wooden floor, no drainage. Was stable clean at time of inspection?—Yes. Are sidewalls, ceilings and ledges kept free from cobwebs and dust?-Yes. Ever lime-washed?-Sources of water supply for watering stock.—Brook in pasture. Sources of water supply for washing cans, bottles, and utensils.—Water from deep well raised to tank in tower and distributed through pipes above grounds. Distance of well or spring from stable.—150 feet. Distance from manure pile.—150 feet. Distance from privy vault.—No vault. Distance from other sources of contamination.—No other apparent sources. Is well apparently liable to contamination?—No. Was sample of water taken for analysis?-No. Number of cows.-Two. Breed.-Jersey. State of health.—Said to be good. Ever examined?—Yes. Date of last examination.—When purchased. Were cows in a cleanly condition at time of inspection?—Not seen. Cows pastured?—Yes, kept in pasture night and day during summer. Manure, how and where stored?—In stable yard. How frequently removed?—Irregular intervals. Quantity of manure at time of this inspection.—About ten loads. How utensils washed and dried?—Warm water and soap or soda. Where are the utensils washed? -At house. Any appliance for sterilizing cans, pails and dippers?-No. Bottles—how washed and dried?—None used. Quantity of milk produced daily?—About 20 quarts. When pail is all of milk what is done with it?—Brought to house. Where does the can stand?—None used. Is milk cooled?-No. Source of ice supply.-None used in handling milk. If shipped, to whom, and where?—Taken twice each day by Pannaci Hotel, Sea Bright.

Date of inspection.—August 11th, 1904. Name of dairyman.—George S. P. Hunt, tenant. Postoffice, township, county.—Little Silver, Shrewsbury Township, Monmouth County. Location of dairy.—Rumson Road.

Size of stable.—20x70x7 (9,800 cubic feet). Cubic feet per cow.—About 516. Stable well lighted?—Five windows 18x24, fitted with sliding glass Material, construction and drainage of floor.—Board floor under stalls ashes and earth rear of stalls, board manure gutter 12x6 drains into stable yard. Cows stand head to head in two rows. Method and frequency of cleaning.—Twice each week in summer and twice each day in winter. Was stable clean at time of inspection?-Manure gutter full. Are sidewalls, ceilings and ledges kept free from cobwebs and dust?—No. Ever lime-washed?—No. Sources of water supply for watering stock.— Stream from underdrain in pasture and well at stable. Sources of water supply for washing cans, bottles and utensils.—Dug well beneath kitchen floor, about 14 feet deep cleaned last spring. Distance of well or spring from stable.—About 180 feet. Distance from manure pile.—About 180 feet. Distance from privy vault.-60 feet. The privy vault is full to overflowing and slope of surface of ground is from vault toward well. Distance from other sources of contamination.—Drain from pump box discharges upon ground three feet from well. Is well apparently liable to contamination?—Yes, from ground pollution by waste fluids. Was sample of water taken for analysis?-Yes. Marks.-D-2,079. Number of cows.-19. Breed.—Grade. State of health.—Said to be and apparently is good. Ever examined?-No. Were cows in a cleanly condition at time of inspection?-Yes. Amount, kind and quality of feed used.-Bran middlings, ground corn and fodder in winter. Cows pastured?-Yes. How and where manure stored?-In stable yard. How frequently removed?-2 or 3 times each year. Quantity of manure at time of this inspection.-About eight loads. How utensils washed and dried?—Warm water and sal soda, rinsed with cold water, inverted on fence to dry. Where are the utensils washed?—In dooryard. Any appliance for sterilizing cans, pails and dippers?-No. Bottles-how washed and dried?-Same as cans. Quantity of milk produced daily?—About 100 quarts. Are milkers' hands washed before milking?—So stated. Are clean garments put on?—No. Udders of cows cleaned?-Not regularly. How?-If badly soiled, brushed with cloth. When pail is full of milk what is done with it?—Poured into can. Where does the can stand?—In stable building. Is can kept covered?— By cheese cloth strainer. Is milk cooled?—Yes. How?—Set cans in tubs of well water and stir with milk dipper. How long after milking?-Directly. To what temperature?—Temperature of water when drawn, 62 degrees Is milk bottled?—Yes. How long after cooling?—After thoroughly cooled. Where is milk bottled?—In yard, nights milk only is bottled. Where is milk stored?—In tubs of water and ice in yard. How long is milk stored before being shipped?—Overnight. Source of ice supply.— Monmouth Ice Co. If shipped, to whom, and where?-Milk is sold in Shrewsbury Township. Temperature of milk when delivered to customers?-Not known. Quarts sold from cans?-About 50 quarts. Quarts sold in bottles?—About 50 quarts. Ever run short?—Not recently. If so, where is supply obtained?—Have bought of Hutchinson. How many persons handle the milk?-Four or five. All in good health?-So stated. Date of last sickness among persons on dairy premises?--None reported.

Re-inspection of the dairy premises occupied by Mr. George Hunt, Rumson Road, Shrewsbury Township, shows that water for washing milk cans and utensils is at present procured from a spring on the borders of a brook which passes through the fields near the dwelling. Mr. Hunt informed me that after notice was received by him from your board informing him that the well on the dairy was polluted he discontinued using the water and has since been taking water from the spring pending arrangements which the owner of the premises has promised to make for a new source of water supply. September 9th, 1904.

Date of inspection.—August 11th, 1904. Name of dairyman, George H. Ivins, owner. Postoffice, township, county.—Little Silver, Shrewsbury, Monmouth Co. Location of dairy.—Rumson Road. Size of stable.—Barn cellar, 45x32x61/2 feet. Cubic feet per cow.—About 425. lighted?—Three windows 1½ feet by 6 feet. Material, construction and drainage of floor.-Plank floor upon which cows stand, with manure gutters 12x18 inches, which have no outlet for fluids. Balance of floors are earth. Method and frequency of cleaning.—Solids shoveled out every day. The earth back of stalls is wet from urine. It was stated that during the summer the cows are kept in stable during milking only. Was stable clean at time of inspection?—Free from accumulating manure. Are sidewalls, ceilings and ledges kept free from cobwebs and Ever lime-washed?—At some remote period. water supply for watering stock.-Well in stable and drain in meadow. Sources of water supply for washing cans, bottles and utensils.—Stated that water from well near dwelling is brought to stable to wash cans. Distance of well or spring from stable.—About 200 feet. Distance from manure pile.—About 200 feet. Distance from privy vault.—About 130 Distance from other sources of contamination.--Horses which are taken to the well to drink from cask pollute the ground near well. Is well apparently liable to contamination?—The well is covered by board platform on which sits a cask for watering horses. The well covering is not water tight. Was sample of water taken for analysis?--No. Number of cows.-22. Breed.-Mixed breed. State of health.-Apparently good. Ever examined?—Not since in Mr. Ivins' possession. Were cows in a cleanly condition at time of inspection?-No. Amount, kind and quality of feed used.—In winter sugar beets, corn meal and midlings. pastured?—Yes. How and where manure stored?—In stable yard. How frequently removed?—Spring and fall of year. Quantity of manure at time of this inspection.—About forty loads. How utensils washed and dried?-Hot water and gold dust, rinsed after washing with cold water. Where are the utensils washed?—At stable, near well. Any appliance for sterilizing cans, pails and dippers?-No. Bottles-how washed and Quantity of milk produced daily?-About eighty dried?-None used. quarts. Are milkers' hands washed before milking?—So stated. clean garments put on?—No. Udders of cows cleaned?—So stated. How? -If muddy, with water and cloth after which they are dried. pail is full of milk what is done with it?—Poured over combined aerator and cooler from which it runs into cans. Where does the can stand?-

Near well in stable yard. Is can kept covered?—Yes, with cheese cloth strainer. Is milk cooled?—Yes, How?—See forty-two. How long after milking?—Directly. To what temperature?—Well water used in cooler. Is milk bottled?—No. Where is milk stored?—Not stored. How long is milk stored before being shipped?—Not stored. Source of ice supply.—None used. If shipped, to whom, and where?—Taken by Alfred Grover, Jr., Shrewsbury, in morning and F. Dietz, Oceanic, takes evening milk.

Re-inspection of the dairy premises occupied by George H. Ivins, on the Rumson Road, Shrewsbury Township, shows that a new board covering has been placed over the well from which water has been taken for washing milk cans and utensils, referred to in my report of inspection dated August 11th, 1904. September 29th, 1904.

Date of inspection.—August 11, 1904. Name of place.—Little Silver. Name of dealer.-John H. Van Nest. How is the milk stored?-Bottles set in ice box and cracked ice placed in crates. Cans kept in cooling boxes partly submerged in iced water. How are cans, bottles and utensils washed?-Metal receptacle, containing water sits on gasolene stoye in which bottles are washed with brush by hand. Any appliances for sterilizing cans, bottles and utensils?-No. Quantity of milk sold daily.-About 400 quarts. How is milk cooled?—See 5. Temperature of milk when sold.—Said to be about 50 degrees F. Where is the regular supply of milk obtained?—Chas. Wyckoff, Wayside; A. C. Weiderholdt, Shrewsbury; J. V. Holmes, Little Silver; M. Kelly, L. M. S. Bell, near Eatontown. When short, where is supply obtained?-Buy from New Brunswick Hygienic Milk Co., N. B. How many persons handle the milk?— Three. Are all in good health?—So stated. Date of last sickness on premises.-None reported. Source of ice supply.-Henry Parker's pond, Little Silver. Source of water supply.—Dug well about seven feet deep bneath milk house covered with board floor. Waste liquids from pump box and from concrete floor in the milk room discharge into wooden box drain, flush with ground surface, beginning at borders of well, and a point back of stable, about 100 feet from well, where it discharges upon the surface of the ground. time of inspection it was stated by Mr. Van Nest that the water in the well was slightly discolored which he attributed to surface water gaining access into the well during recent rain storm. Was sample taken for analysis?—Yes. Marks.—D-2.081.

Re-inspection of the milk depot premises occupied by Mr. John H. Van Nest, Little Silver, shows that water from the public water works is now being laid on said premises. I was informed by an employee on the premises that since notice was received by Mr. Van Nest from your Board advising him that the sample of water taken August 25th for analysis from the well beneath his milk depot was polluted, all water used for washing milk cans and utensils on the premises has been procured from a well at the dwelling. September 29th, 1904.

Date of inspection.—August 12th, 1904. Name of dairyman.—George H. Lippincott, owner. Postoffice, township, county.—Little Silver, Shrewsbury Township, Monmouth Co. Location of dairy.—Little Silver.

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Size of stable.—Portion in which cows are kept is 12x17x5. Cubic feet. per cow.-255 feet. Stable well lighted?-Two windows, one 18x18 and one 24x24. Material, construction and drainage of floor.—Earth floor with irregular trench worn in earth at rear of stalls. Method and frequency of cleaning.—Manure thrown out into barnyard. Was stable clean at time of inspection?—No manure in stalls. Are sidewalls, ceilings and ledges kept free from cobwebs and dust?—No. Ever lime-washed?—No. Sources of water supply for watering stock.—Well on border of stable yard. Sources of water supply for washing cans, bottles and utensils.— Dug well in back yard. Water rises within 6 or 8 feet of ground surface, covered with board floor, force pump in house drains water from well. Distance of well or spring from stable.—About 500 feet. Distance from manure pile.—About 500 feet. Distance from privy vault.—About 45 feet. Very little accumulation on ground beneath privy building. It was stated, and ground has this appearance, that the accumulations are frequently removed from beneath privy building. Is well apparently liable to contamination?--Not unless it be from pollution through well covering which is not water-tight. Was sample of water taken for analysis?-No. Number of cows.—Four. Breed.—Not learned. State of health.—Not learned. Ever examined.—Not learned. Amount, kind and quality of feed used.— Not learned. Cows pastured?—Yes. How and where manure stored?— In stable yard near building. How frequently removed?—Not learned. Quantity of manure at time of this inspection.—About 75 to 100 cubic yards. How utensils washed and dried?—First with cold water and sal soda, then rinsed with boiling water taken from tea kettle. Where are the utensils washed?—In dwelling. Any appliance for sterilizing cans, pails and dippers?—No. Bottles—how washed and dried?—None used. Quantity of milk produced daily?—About thirty quarts. hands washed before milking?-Not learned. Are clean garments put on?—Not learned. Udders of cows cleaned?—Not learned. When pail is full of milk what is done with it?-Not learned. Where does the can stand?—Not learned. Is can kept covered?—Not learned. cooled?—Yes. How?—By placing cans in tubs filled with well water. How long after milking?—Directly. To what temperature?—Temperature of water when drawn 61 degrees F. Is milk bottled?--No. Where is milk stored?—Sometimes in can near well. How long is milk stored before being shipped?—Sometimes overnight. Source of ice supply.— None used. If shipped, to whom, and where?—Taken by George Elgrin, Little Silver.

Date of inspection.—August 12th, 1904. Name of dairyman.—W. C. Lippincott, owner. Postoffice, township, county.—Little Silver, Shrewsbury Township, Monmouth Co. Location of dairy.—Little Silver. Size of stable.—10x13x7. Cubic feet per cow.—About 303 feet. Stable well lighted?—Three windows about 3x2 each, fitted with sliding glass sash. Material, construction and drainage of floor.—Earth floor slope from rear of stalls to side of building. Method and frequency of cleaning.—Solids thrown out daily but rough floor is unclean. Was stable clean at time of inspection?—Manure had been removed. Are sidewalls, ceilings

and ledges kept free from cobwebs and dust?-No. Ever lime-washed?-Yes. Sources of water supply for watering stock.—Brook in meadow. Sources of water supply for washing cans, bottles and utensils.—Dug well beneath kitchen floor. Tile drain carries waste fluids from metal lined pump box 100 feet from well. Distance of well or spring from stable.-400 feet. Distance from manure pile.—400 feet. Distance from privy vault.-100 feet, ground surface slopes from well. Distance from other sources of contamination.—No apparent source of ground pollution. well apparently liable to contamination?—There is a wooden box constructed over well in kitchen with hinged lid and articles of food are sometimes lowered into well. Was sample of water taken for analysis?— No. Number of cows.—Three. Breed.—Grade. State of health.—Said to be good. Ever examined?—No. Were cows in a cleanly condition at time of inspection?-No. Amount, kind and quality of feed used.-Clover hay, brown middlings and bran. Cows pastured?—Yes. How and where manure stored?—On ground near stable. How frequently removed?— Every fall. Quantity of manure at time of this inspection.—About 75 cubic yards. How utensils washed and dried?—No cans washed. Milking pails washed. Where are the utensils washed?—At dwelling, Any appliance for sterilizing cans, pails and dippers?-No. Bottles-how washed and dried?-None used. Quantity of milk produced daily?-About 25 to 30 quarts. Are milkers' hands washed before milking?—Said to be. Are clean garments put on?—No. Udders of cows cleaned?—Yes. How?— Cleaned with brush daily. When pail is full of milk what is done with it?—Carried to house. Where does the can stand?—At dwelling. Is milk cooled?-No. How?-Delivered to nearby milk depot as soon as milked. Is milk bottled?—No. Where is milk stored?—Not stored. Source of ice supply.-None used. If shipped, to whom, and where?-Taken to John H. Van Ness, Little Silver. Remarks.—The dwelling stands on high ground with good drainage, and the ground around the house is well kept and presents a neat and clean appearance.

Date of inspection.—August 12th, 1904. Name of dairyman.—Henry Parker, owner. Postoffice, township, county.—Little Silver, Shrewsbury Township, Monmouth Co. Location of dairy.—Little Silver. stable.—10x30x8, loose inclosure. Cubic feet per cow.—600. Stable well lighted?-No windows but numerous cracks and openings through which light enters. Material, construction and drainage of floor.—Earth floor, no drainage, wet and unclean. Method and frequency of cleaning.-Generally once each day accumulation of manure is thrown out. Was stable clean at time of inspection?—No. Are sidewalls, ceilings and ledges kept free from cobwebs and dust?-No. Ever lime-washed?-No. Sources of water supply for watering stock.-Well near dwelling and brook in pasture. Sources of water supply for washing cans, bottles and utensils.-Dug well 61/2 feet from ground surface to water, 10 feet from dwelling, covered with board platform not water-tight, depth of well, 12 feet. Distance of well or spring from stable.-45 feet. Distance from manure pile. -45 feet. Distance from privy vault.-About 45 feet. Large box privy half full of offensive accumulation. Distance from other sources of contamination.—Waste liquids from pump box falls upon and flows over surface of ground from border of well. Is well apparently liable to contamination?—Yes, from waste liquids on ground near well. Also leaky well covering. Was sample of water taken for analysis?—Yes. -D-2,080. Number of cows.-Four. State of health.-Said to be good. Ever examined?-No. Were cows in a cleanly condition at time of inspection?—Not seen. Amount, kind and quality of feed used.—In winter corn stalks, hay and ground corn. Cows pastured?—Yes. How and where manure stored?—In stable yard. How frequently removed?—Spring and fall. Quantity of manure at time of this inspection.—About ten wagon loads. How utensils washed and dried?—Warm water and soap, then rinsed with hot water, hung on fence to drain and dry. Where are the utensils washed?—In shed or in yard. Any appliance for sterilizing cans, pails and dippers?-No. Bottles-how washed and dried?-None used. Quantity of milk produced daily?—About thirty quarts. Are milkers' hands washed before milking?—No. Are clean garments put on?—No. Udders of cows cleaned?—No. How?-It was stated that teats are smeared with lard before milking. When pail is full of milk what is done with it?-Taken to house, strained, put into can and can placed into spring. Where does the can stand?—See 42. Is can kept covered?— No. Is milk covered?—No. Is milk cooled?—Yes. How?—Can placed into spring. How long after milking?—Directly after milking. To what temperature?-Temperature of spring water 58 degrees F.; temperature of well water, 64 degrees F. Is milk bottled?-No. Where is milk stored? -In spring. How long is milk stored before being shipped?-Over night. Source of ice supply.—None used. If shipped, to whom, and where?— Taken by George Elgrin, Little Silver, once each day.

Re-inspection of the dairy premises occupied by Mr. Henry Parker, Little Silver, Shrewsbury Township, shows that there has been no change in the water supply provided on said premises. Mrs. Parker stated at the time of this inspection that no more water would be taken from the well, from which a sample of water was taken for analysis on August 5th, for washing milk cans and utensils but all water used for this purpose will be taken from a spring on the premises referred to in the report of inspection of said dairy. September 29th, 1904.

Date of inspection.—August 12, 1904. Name of place.—Little Silver. Name of dealer.—George Elgrin. Street and number.—Rumson Road and Branch avenue. How is milk stored?—Mr. Elgrin stated that no milk is stored upon the premises. The milk is said to be gathered from producers mornings and delivered to consumers direct. How are cans, bottles and utensils washed?—With warm water and soda, rinsed with freshly drawn well water. Mr. Elgrin stated that he takes empty bottles when he goes to the dairies mornings to collect milk and fills bottles while on the wagon driving from house to house. Any appliances for sterilizing cans, bottles and utensils?—No. Quantity of milk sold daily.—About 175 quarts. How is milk cooled?—The milk is not cooled but delivered as received from producers. Temperature of milk when sold.—Not known. Where is the regular supply of milk obtained?—L. Warden,

J. Martin, George Lippincott, and A. H. Parker, all of Little Silver, and Dr. Laws of Neets Swamp. When short, where is supply obtained?—From Van Nest, Grover and other dealers. How many persons handle the milk?—One, Mr. Parker only. Are all in good health?—So stated. Date of last sickness on premises.—None reported. Source of ice supply.—None used. Source of water supply.—Dug well located in back yard, five feet from back porch, covered with leaky board platform flush with ground. Water stands in the well to within 12 feet of surface of ground. There are two privy vaults, full to overflowing, located twenty feet distant from the well and waste liquids stand in a pool upon the ground surface within three feet of the border of the well. The cans which Mr. Elgrin delivers to the dairy men who supply him with milk are washed by Mr. Elgrin, with water from this well, before they are sent to the dairies. Was sample taken for analysis?—Yes. Marks.—D-2,082.

An unclean and offensive hog pen is located on the rear of the lot.

Re-inspection of the premises in Little Silver on which Mr. George Elgrin conducted a milk depot and from which a sample of water was taken from the well for analysis on August 25th, shows that the milk business is no longer conducted on said premises. Mr. Elgrin stated he sold his business to Mr. William Reid, of Eatontown. September 29th, 1904.

Date of inpection.—August 12, 1904. Name of dairyman.—James Martin, owner. Postoffice, township, county.—Little Silver. Shrewsbury Township, Monmouth Co. Size of stable.--The cow sheds and stable buildings on this place are old tumbled down structures in which no cows are kept at this season of the year. From examination of the buildings it could not be determined what one of the buildings is used for stabling cows in winter. There was no one on the premises to give information concerning Method and frequency of cleanthese questions at time of inspection. ing .-- Not learned. Every lime-washed?--- No, none of the buildings have been. Sources of water supply for waterng stock.—Well back of garden. Sources of water supply for washing cans, bottles and utensils. There are two dwellings on this place located about 400 feet apart with the stable buildings located midway between the two; there are also two wells, one beneath the shed floor and one back of the garden, belonging to the other dwelling. They are both covered by wooden floors that are not water-tight, and the ground near both wells shows markings of waste liquids. Mrs. Martin stated that water in the well under shed floor is unfit for use and that water is carried from the well back of garden in which to wash utensils. The can is washed by Mr. Elgrin before delivery. Distance of well or spring from stable.—About 75 feet. Distance from manure pile.—About 75 feet. Distance from privy vault.—There is a privy vault about 45 feet from either well. Is well apparently liable to contamination?—Waste liquids are thrown upon ground near wells. Was sample of water taken for analysis?—Yes. Marks.—D-2,083. Number of cows.— State of health.—Apparently good. Breed.-Grade. Ever ex-Three. amined?-Not learned. Were cows in a cleanly condition at time of inspection?-Yes. Amount, kind and quality of feed used.-Not learned. Cows pastured?—Yes. How and where manure stored?—In stable yard.

How frequently removed?—Not learned. Quantity of manure at time of inspection.—About fifty cubic yards. How utensils washed and dried?— Warm water and cloth, no soap or soda used. Where are the utensils washed?-At dwelling. Any appliance for sterilizing cans, pails and dippers?-No. Bottles-how washed and dried?-None used. milk produced daily?—About 30 quarts. Are milkers' hands washed before milking?-Not learned. Are clean garments put on?-Not learned. Udders of cows cleaned?-Not learned. When pail is full of milk what is done with it?—Poured into can. Where does the can stand?—In back yard near well. Is milk cooled?-Yes. How?-Can placed in tub containing water from well. How long after milking?—Directly. To what temperature?-Same as well water when drawn, 60 degrees F. bottled?—No. Where is milk stored?—In yard in tub containing well water. How long is milk stored before being shipped?—Overnight. Source of ice supply.—None used. If shipped, to whom, and where?— Taken by George Elgrin, Little Silver.

Re-inspection of the well on the dairy premises occupied by James Martin, Little Silver, Shrewsbury Township, shows that the depression which held the stagnant water near the well, from which a sample was taken for analysis on August 25th, has been filled up. Nothing has been done to the well covering to make it water-tight. September 29th, 1904.

Date of inspection.—August 12th, 1904. Name of dairyman.—E. C. Hazard, owner. Postoffice, township, county.—Shrewsbury, Shrewsbury Township, Monmouth Co. Location of dairy.—Shrewsbury. Size of stable. Cubic feet per cow.—About 476. -68x10x7 (10 stalls) lighted?—Three windows 24x28, also numerous cracks and openings over stall doors. Material, construction and drainage of floor.—Earth floors with no drainage. Method and frequency of cleaning.—Each day solids thrown out, bedding removed and mangers brushed out once each week. Was stable clean at time of inspection?—No, manure in stalls. Are sidewalls, ceilings and ledges kept free from cobwebs and dust?-No. The ceiling is formed by rails laid across beams to form hay loft over stable. Ever lime-washed?-No. Sources of water supply for watering stock.-Well near barn about 12 feet deep, covered by leaky board platform with sink drains upon ground near well. It was stated by Mr. Hazard's son that there is no farmer on the place at present and that milking pails and utensils are taken to the factory near by where they are washed and cleaned with streaming water. Distance of well or spring from stable.-45 feet. Distance from manure pile.—60 feet. Distance from privy vault. —24 feet. Is well apparently liable to contamination?—Yes, by leachings from privy vault and waste liquids upon ground. Was sample of water taken for analysis?—Yes. Marks.—D-3,003. Number of cows.—13. Breed. -Grade. State of health.—Said to be good. Ever examined?—No. Were cows in a cleanly condition at time of inspection?—Not seen. Amount, kind and quality of feed used.-Not learned. Cows pastured?-Yes. How and where manure stored?—In stable yard. How frequently removed?— Two or three times each year. Quantity of manure at time of this inspection.—About 75 to 100 wagon loads. How utensils washed and dried?

—See note 13. Where are the utensils washed?—See note 13. Any appliance for sterilizing cans, pails and dippers?—Not on the dairy premises. Bottles—how washed and dried?—None used. Quantity of milk produced daily?—About 125. Are milkers' hands washed before milking?—Yes. Are clean garments put on?—Not learned. Udders of cows cleaned?—Not learned. Where does the can stand?—Not learned. Is can kept covered?—Not learned. Is milk cooled?—Yes. How?—Cans placed in tubs filled with water. How long after milking?—Directiy. To what temperature?—Temperature of well water when drawn, 64 degrees, F. Is milk bottled?—No. Where is milk stored?—In yard near pump. How long is milk stored before being shipped?—Overnight. Source of ice supply.—None used. If shipped, to whom, and where?—Taken by Alfred Grover, Shrewsbury.

Re-inspection August 30th, 1904. Name.—E. C. Hazard. I am informed that preparations are being made to lime-wash the interior of cow stable. Since inspection made August 1th, 1904, the well has been sunk deeper and its depth is now about fifteen feet and, it was stated, it is to be still further deepened. A new curbing has been laid around the well from below and extending several inches above the surface of the ground and the well has been covered with a flagging stone. A windmill has been erected over the well. I am informed that the privy vault is to be removed from its present location. Sample of water at this time was quite turbid in appearance owing, no doubt, to work now being done in well. August 30, 1904.

Date of inspection.—August 12th, 1904. Name of dairyman.—Joseph V. Holmes, tenant. Postoffice, township, county.—Shrewsbury, Shrewsbury Township, Monmouth Co. Location of dairy.—Shrewsbury. stable.—38x12x7, (eight stalls in which are five cows and two yearlings). Cubic feet per cow.—About 456 for each animal. Stable well lighted?— Two windows, 22x30. Material, construction and drainage of floor.—Earth floor with no drainage. Method and frequency of cleaning.—Stalls kept free from manure, cleaned three times each day. Was stable clean at time of inspection?—Free from manure. The two stalls occupied by yearlings contained a quantity of manure and gave evidence of not being frequently cleaned. The animals were obliged to lie in soft manure covering the stalls. Are sidewalls, ceilings and leages kept free from cobwebs and dust?-No. Ceiling is formed by rails laid across beams to make hay loft above stable. Ever lime-washed?—No. Sources of water supply for watering stock.—Brook in meadow and well. Sources of water supply for washing cans, bottles and utensils.—Dug well located under shed floor. Drainage from house discharged into grease trap located adjoining outside foundation wall opposite well. There is a tile drain leading from grease trap to cesspool about 125 feet distant from well. Distance of well or spring from stable.—About 300 feet. Distance from manure pile.— About 300 feet. Distance from privy vault.—About 75 feet. from other sources of contamination.—Cesspool about 90 feet. apparently liable to contamination?—The well has wooden box over portion of same with hinged cover and articles of food are lowered in well.

Was sample of water taken for analysis?-No. Number of cows.-Five. Breed.—Grade. State of health.—Apparently good. Ever examined?—No. Were cows in a cleanly condition at time of inspection?—Yes. Amount, kind and quality of feed used.—Clover hay, oats and ground corn. Cows pastured?-Yes. How and where manure stored?-In stable yard. How frequently removed?---Usually removed when one load accumulates. Quantity of manure at time of this inspection.—About 25 cubic yards. Where are the utensils washed?—At dwelling. Any appliance for sterilizing cans, pails and dippers?—No. Bottles—how washed and dried?— None used. Quantity of milk produced daily?—About 45 quarts. Are clean garments put on before milking?—No. Udders of cows cleaned?— Yes. How?—Brushed with hands. When pail is full of milk what is done with it?-Poured into can. Where does the can stand?-In stable buildings. Is can kept covered?—Yes. Is milk cooled?—No. Is milk bottled? -No. Where is milk stored?-Not stored. How long is milk stored before being shipped?-Not stored. Source of ice supply.-None used. If shipped, to whom, and where?—Taken by Van Ness, Shrewsbury, twice every day.

Date of inspection.—August 15, 1904. Name of place.—Shrewsbury. Name of dealer.-Alfred Grover, Jr. Street and number.-Sycamore avenue. How is the milk stored?—Cans placed in metal lined cooling boxes in which iced water is kept. How are cans, bottles and utensils washed? -In wooden trays with hot water, gold dust and hand brushes. Any appliances for sterilizing cans, bottles and utensils?-No. Quantity of milk sold daily.—About 500 quarts. Is can kept covered?—After milk is cooled covers placed on cans. How is milk, cooled?—Cans partly submerged in iced water in cooling boxes. Temperature of milk when sold .-- Not known. Where is the regular supply of milk obtained?—E. C. Hazzard, A. Armstrong, Wm. Conover, James Lobe, all of Shrewsbury. When short, where is supply obtained?—From J. H. Van Nest, Little Silver, or other dealers. How many persons handle the milk?-Three. Are all in good health?—So stated. Date of last sickness on premises.—None reported. Source of ice supply.-Lake Marrion Ice Co. Source of water supply.—Rumson Water Works. Was sample taken for analysis?—No.

The milk house is located in yard separate from other buildings and the place presents a neat and tidy appearance.

Date of inspection.—August 15, 1904. Name of dairyman.—Alfred C. Weiderholt, tenant. Postoffice, township, county.—Shrewsbury, Shrewsbury, Monmouth Co. Location of dairy.—Shrewsbury. Size of stable.—40x14x6 feet. Stalls for eleven cows. Cubic feet per cow.—About 305. Stable well lighted?—No. Light admitted only through open doors, cracks and places where boards are off building. Material, construction and drainage of floor.—Rough, well worn board floor beneath eight stalls with manure gutter drained into barn yard. Balance of stable has earth floor. Method and frequency of cleaning.—Not learned. Was stable clean at time of inspection?—No. Are sidewalls, ceilings and ledges kept free from cobwebs and dust?—No. Ever lime-washed?—No. Sources of water supply for watering stock.—Well, on border of stable yard and within ten feet of two privy vaults on public school grounds and 15 feet from hog pen.

Sources of water supply for washing cans, bottles and utensils.—Dug well beneath shed floor at dwelling. The wooden floor covering well is leaky. Distance of well or spring from stable.—105 feet. Distance from manure pile.—120 feet. Distance from privy vault.—About 58 feet. Vault full to overflowing. Is well apparently liable to contamination?-Waste liquids from pump box flows through wooden gutter to point twenty feet from well thence over surface of ground. Was sample of water taken for analysis?--Yes. Marks.--D-2,085. Number of cows.--13. State of health. -Said to be good. Ever examined?-No. Were cows in a cleanly condition at time of inspection?—Not seen. Amount, kind and quality of feed used.—Not learned. Cows pastured?—Yes. Manure, how and where stored? -In stable yard. How frequently removed?-Not learned. How utensils washed and dried?—Hot water and soap scalded with hot water and rinsed with cold water; then placed in open air to dry. Where are the utensils washed?—At dwelling. Any appliance for sterilizing cans, pails and dippers?-No. Bottles-how washed and dried?-None used. Quantity of milk produced daily?—About 80 quarts. Are milkers' hands washed before milking?-Not learned. Are clean garments put on?-Not learned. Udders of cows cleaned?—Yes. How?—Washed with water and cloth. When pail is full of milk what is done with it?-Poured on cooler from which it runs into cans. Where does the can stand?—In stable building. Is can kept covered?—Yes, with cheese cloth strainer. Is milk cooled?— How?-Run over cooler filled with well water. How long after milking?—Directly. To what temperature?—Temperature of water when drawn, 57 degrees F. Is milk bottled?—No. Where is milk stored?—Not Source of ice supply.-None used. If shipped, to whom, and where?—Taken by Mr. J. H. Van Nest, Little Silver, twice daily.

Re-inspection of the premises occupied by A. Weiderholdt, Shrewsbury, Shrewsbury Township, shows that water from the same well from which a sample was taken for analysis August 25th is being used for washing milk cans and utensils. It was stated by Mr. and Mrs. Weiderholdt that all water used in washing milk cans and utensils is first boiled and allowed to cool before use and that none but water which has been first boiled is used on the dairy for washing or rinsing the cans and utensils. The privy vault has been moved further away from the well and Mr. Weiderholdt stated that preparations are being made to lay a new drain, place a new covering over the well, and if found necessary, have the well cleaned. September 29th, 1904.

Date of inspection.—August 15, 1904. Name of dairyman.—Mrs. S. E. Reid, tenant. Postoffice, township, county.—Shrewsbury, Shrewsbury Township, Monmouth Co. Location of dairy.—Shrewsbury. Size of stable. —31x18x7 feet (nine stanchions). Cubic feet per cow.—About 413. Stable well lighted?—Two windows 48 by 28 inches. Material, construction and drainage of floor.—Wooden floor upon which cows stand with earth floor at rear of stalls, no drainage. Method and frequency of cleaning.—Droppings kept shoveled out, board floor thickly incrusted with dry manure. Are sidewalls, ceilings and ledges kept free from cobwebs and dust?—No. Ever lime-washed?—No. Sources of water supply for watering

15 feet from dwelling covered with board platform. Distance of well vault.—25 feet. Vault full to overflowing. Distance from other sources of contamination.—Waste fluids from pump box flows upon the ground 15 feet from well. Is well apparently liable to contamination?—The privy vault and drain are dangerously near well. Was sample of water taken for analysis?—Yes. Marks.—D-3,005. Number of cows.-13. Breed.-Grade. State of health.-Said to be good. Ever examined?—No. Were cows in a cleanly condition at time of inspection?— Not seen. Amount, kind and quality of feed used.—In winter corn, buckwheat and oatmeal and wheat bran. Cows pastured?—Yes. Manure, how and where stored?—In stable yard. How frequently removed?—Three or four times a year. Quantity of manure at time of this inspection.—About thirty loads. How utensils washed and dried?—Hot water and rinsed in hot or cold water and placed in open air to drain and dry. Where is milk cooled?-Night's milk run over cooler filled with well water; morning's milk not cooled. How fong after milking?—Directly after milkutensils washed?—At dwellings. Any appliance for sterilizing cans, pails yard. Is can kept covered?-Yes. With cheese cloth strainer. Bottles-how washed and dried?—None used. Quantity of daily?—About 75 quarts. are milkers' hands washed before milking?—Yes. Are clean garments put on?—No. Udders of cows cleaned?—Yes. How?—Rubbed off with burlap and cows covered to keep off flies. When pail is full of milk what is done with it?—Carried to house and strained into cans. Where does the can stand?—Near dwelling To what temperature?—Temperature of well water when drawn, 56 degrees F. Is milk bottled?—No. Where is milk stored?—Not stated. Source of ice supply.-None used. If shipped, to whom, and where?-Taken by Alfred Grover, Shrewsbury, twice daily.

Date of inspection.—August 15, 1904. Name of dairyman.—Aaron Armstrong, tenant. Postoffice, township, county.—Shrewsbury, Township, Monmouth Co. Location of dairy.—Shrewsbury. Size of stable.—No. 1, 50x11x7, five stalls; No. 2, 50x15x7, 18 stalls. Cubic feet per cow.—Stable No. 1, 770; stable No. 2, 290. Stable well lighted?—No. 1, 3 windows, 30x30 inches fitted with solid board shutters; No. 2, 5 windows, 30x30, with glass sashes. Material, construction and drainage of floor.—No. 1, earth floors. no drainage; No. 2, board floor upon which cattle stand with manure gutter draining into yard. Earth floor in rear of stalls. Method and frequency of cleaning.—In winter twice daily. Was stable clean at time of inspection?—No. Are sidewalls, ceilings and ledges kept free from cobwebs and dust?—No. Ever lime-washed?—No. Sources of water supply for watering stock.—Brook in pasture and well in barn yard. Sources of water supply for washing cans, bottles and utensils.—Dug well in barn yard from which water is pumped by wind mill to tank in hay loft and distributed through pipes to house and to milk house. There is also a dug well in yard 25 feet from dwelling, covered with raised board platform with wide cracks between each plank and a drain on the surface of the ground into which waste fluids from the pump box falls near the borders

of the well. Distance of well or spring from stable.—Practically under stable. Distance from manure pile.—Under manure pile. Distance from privy vault.-About two hundred feet. Distance from other sources of contamination.—Surrounded by sources of contamination. Is well apparliable to contamination?-Yes. Was sample of water taken for analysis?—Yes. Marks.—D-3.006. Number of cows.—20. Breed — Grade. State of health.—Said to be good. Ever examined?—Not learned. Were cows in a cleanly condition at time of inspection?—No. Amount, kind and quality of feed used.—Not learned. Cows pastured?—Yes. and where manure stored?--In barn yard. How frequently removed?--Spring and fall. Quantity of manure at time of this inspection.—Thirty or forty wagon loads. How utensils washed and dried?-Hot water and soap and generally rinsed in hot water. Where are the utensils washed? -In yard at dwelling or in milk house. Any appliance for sterilizing cans, pails and dippers?—No. Bottles—how washed and dried?—No bottles used. Quantity of milk produced daily?—About 130 quarts. Are milkers' hands washed before milking?-Yes. Are clean garments put on? Udders of cows cleaned?—Not regularly. How?—When soiled with manure or mud washed with water. When pail is full of milk what is done with it?—Taken to milk room and poured over cooler into cans. Where does the can stand?—In milk house. Is can kept covered?—Yes, with cheese cloth strainer. Is milk cooled?—Yes. How?—Poured over cooler containing ice water. How long after milking?--Directly. To what temperature?—Not learned. Is milk bottled?—No. Where is milk stored? -Not stored on premises. Source of ice supply.-Gathered from nearby ponds. If shipped, to whom, and where?-Mr. A. Grover, Shrewsbury, takes milk morning and night.

I have this day procured a sample of water from the dooryard well on the dairy premises owned by Mrs. S. J. Allen, in Shrewsbury, and occupied by Aaron Armstrong and sent the same to the State Laboratory marked "D-3,046." This well, referred to in my report of inspection dated August 15th, is a dug well about thirty feet deep and contains about eleven feet of water. It is covered by a very leaky board platform and the water dripping from the pump spout falls into a wooden trough and from thence upon the ground near the borders of the well. The well is surrounded by apparently clean bare ground with sharp surface drainage from the house past the well and down the hillside. There is a leaching privy vault, pig pen and a pool of stagnant water where the sink drain discharges upon the ground all at a distance of sixty-six feet from the well. September 29th, 1904.

Date of inspection.—August 15, 1904. Name of dairyman.—William I. Conover, tenant. Postoffice, township, county.—Shrewsbury, Shrewsbury Township, Monmouth Co. Location of dairy.—Shrewsbury. Size of stable.—12x22x7 feet. Cubic feet per cow.—About 370. Stable well lighted?—One window, 14x18 inches plus numerous cracks in building. Material, construction and drainage of floor.—Earth floor and no drainage. The stalls were abundantly supplied with clean straw bedding. Method and frequency of cleaning.—Not learned. Was stable clean at time of in-

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sidewalls, ceilings Are and spection?—Yes. ledges from cobwebs and dust?—No. Ever lime-washed?—No. water supply for watering stock.—Brook in pasture and well. Sources of water supply for washing cans, bottles and utensils.—Dug well in lane 35 feet from dwelling. Distance of well or spring from stable.-About 130 feet. Distance from manure pile.—About 140 feet. Distance from privy vault.—About 150 feet. Distance from other sources of contamination.—About 70 feet from hog pen. Is well apparently liable to contamination?—Horses and cows drink from watering trough by side of well and the board floor which covers well is not water-tight. sample of water taken for analysis?—Yes. Marks.—D-3,008. Number of cows.-5. Breed.-Grade. State of health.-Said to be good. Ever examined?-Not known to have been. Were cows in a cleanly condition at time of inspection?—Yes. Amount, kind and quality of feed used.—Not Cows pastured?—Yes. How and where manure stored?-Thrown into stable yard. How frequently removed?-Not learned. Quantity of manure at time of this inspection.—About one foot deep, wet and mucky. Over stable yard covering about 5,000 square feet of ground surface. How utensils washed and dried?—not water and rinsed with cold water and placed in open air to dry. Where are the utensils washed? —At dwelling. Any appliance for sterilizing cans, pails and dippers?— No. Bottles—how washed and dried?—None used. Quantity of milk produced daily?-About 30 quarts. Are milkers' hand washed before milking?-Not learned. Are clean garments put on?-Not learned. Udders of cows cleaned?-Not learned. When pail is full of milk what is done with it?-Poured over cooler into cans. Where does the can stand?-Outside stable on grass plot. Is can kept covered?—Yes, with cheese cloth strainer. Is milk cooled?—Yes. How?—On cooler containing well water. How long after milking?—Directly. To what temperature?—Temperature of water when drawn, 58 degrees F. Is milk bottled?-No. Where is milk stored?—Not stored. Source of ice supply.—None used. If shipped, to whom, and where?-Delivered to A. Grover, twice each day.

Date of inspection.—August 15, 1904. Name of dairyman.—William Jackson, tenant. Postoffice, township, county.—Tinton Falls, Shrewsbury Township, Monmouth Co. Location of dairy.—Tinton Falls. Size of stable.-32x11x7 feet. Cubic feet per cow.-About 308. lighted?—Three windows, 18x20 inches. Material, construction drainage of floor.—Board floor beneath cattle with manure gutter, earth floor rear of stalls. Method and frequency of cleaning.-Morning, night and noon. Cows stabled only during milking during summer time. Was stable clean at time of inspection?-Manure had been removed. sidewalls, ceilings and ledges kept free from cobwebs and dust?--No. Ever lime-washed?-No. Sources of water supply for watering stock.-Dug well under stable building. Said to be 75 feet deep. Water from this well is pumped by wind mill to tank in hay mow. Sources of water supply for washing cans, bottles and utensils.-Dug well near corner of dwelling covered with board platform, slightly raised above the ground surface. This well was recently cleaned and, it was stated, its depth is 60 feet.

To a depth of 27 feet from the surface the well is walled up with bricks, the remaining 33 feet is dug through solid rock. Water now standing in the well to within 25 feet of the surface and, it was stated, at times water rises and stands in the well to within 6 feet of the surface. The platform covering the well is not water-tight and there is a horse shoe tile drain leading from the box beneath the pump spout to the public road. drain, although laid on a sharp grade is said to obstruct occasionally and has to be cleaned. Distance of well or spring from stable.—About 300 feet. Distance from manure pile.—About 300 feet. Distance from privy vault.—About 54 feet. Is well apparently liable to contamination?—It may receive pollution from leaky covering or leaky drain. Was sample of water taken for analysis?-Yes. Marks.-D-3,009. Number of cows.-State of health.—Said to be good. Breed.—Grade. amined?—No. Were cows in a cleanly condition at time of inspection?— Not seen. Amount, kind and quality of feed used.—In winter ground corn. wheat bran and beets. Cows pastured?—Yes. How and where manure stored?—Thrown into stable yard. How frequently removed?—Every fall. Quantity of manure at time of this inspection.—Forty to fifty cubic yards. How utensils washed and dried?—Hot water and washing powder and rinsed with cold water. Where are the utensils washed?—At dwelling. Any appliance for sterilizing cans, pails and dippers?-No. Bottleshow washed and dried?-None used. Quantity of milk produced daily?-About fifty quarts. Are milkers' hands washed before milking?—Yes. Are clean garments put on?—No. Udders of cows cleaned?—Yes. How? ---Washed when dirty. When pail is full of milk what is done with it?--Poured into can. Where does the can stand?—At the dwelling. Is can kept covered?—With cheese cloth strainer. Is milk cooled?—Yes. How? Placed in cans in tub containing well water and stir milk. How long after milking?—Directly. To what temperature?—Temperature of water when drawn, 52 degrees F. Is milk bottled?—No. Where is milk stored? -In yard. How long is milk stored before being shipped?-Over night. Source of ice supply.—None used. If shipped, to whom, and where?— Taken by John H. Cook, Tinton Falls, each morning.

Re-inspection of the dairy premises occupied by William Jackson, Tinton Falls, shows that there has been no change in the source of water supply on said premises. Mrs. Jackson informed me, at the time of this inspection, that since notice was received from your board, stating that a sample of water taken for analysis on August 30th was polluted, all water for washing milk cans and utensils has been procured from a well at the stable, referred to in report of inspection dated August 15th, 1904, or from a dug well on the adjoining farm. Mrs. Jackson further stated that they are expecting the owner of the property to provide a satisfactory water supply. September 29th, 1904.

Date of inspection.—August 19, 1904. Name of dairyman.—Wellington Wilkinson, owner. Postoffice, township, county.—Tinton Falls, Shrewsbury Township, Monmouth Co. Location of dairy.—Tinton Falls. Size of stable.—30x12x10 (8 stalls). Cubic feet per cow.—516. Stable well lighted?—Yes, three windows 24x42 inches. Fitted with double sliding

glass sashes. Material, construction and drainage of floor.—Earth floor sloping from front of each stall to openings beneath doors into barn yard. Method and frequency of cleaning.—Not learned. Was stable clean at time of inspection?—No. Cows not kept in stable during summer time; are in pasture day and night. Are sidewalls, ceilings and ledges kept free from cobwebs and dust?—No. Ever lime-washed?—Part of stable had been long time ago. Sources of water supply for watering stock.-Dug well near stable and stable yard. Water pumped by wind mill to tank. Sources of water supply for washing cans, bottles and utensils.—Dug well near dwelling with open curb water drawn in buckets attached to ends of chain which works over a wheel fastened in a beam beneath roof over well. The ground about the well is paved with bricks and slopes from the well. It is about 20 feet from surface of ground to water level in well and it was stated that water is 18 feet deep in well. Temperature of water, 52 degrees F. Distance of well or spring from stable.-About 200 feet. Distance from manure pile.—About 200 feet. Distance from privy vault.—84 feet. Distance from other sources of contamination.—50 feet from hog pen. Is well apparently liable to contamination?—Only by introduction of polluting substances into the well owing to lack of cover. Was sample of water taken for analysis?—No. Number of cows.—Seven. Not learned. State of health.—Not learned. Ever examined?—Not learned. Were cows in a cleanly condition at time of inspection?—Not Amount, kind and quality of feed used.-Not learned. pastured?-Yes. How and where manure stored?-In stable yard. How frequently removed?-Not learned. Quantity of manure at time of this inspection.—About 20 wagon loads. How utensils washed and dried?— With warm water and borax or soap. Where are the utensils washed?— At dwelling. Any appliance for sterilizing cans, pails and dippers?—No. Bottles-how washed and dried?-None used. Quantity of milk produced daily?—About 25 quarts. Are milkers' hands washed before milking?— Not learned. Are clean garments put on?-Not learned. Udders of cows cleaned?-Not learned. When pail is full of milk what is done with it?-Poured into can. Where does the can stand?—In yard near well. Is can kept covered?—By cheese cloth strainer. Is milk cooled?—No. Is milk bottled?—No. Where is milk stored?—Not stored. Source of ice supply.— None used. If shipped, to whom, and where?—John H. Cook, Tinton Falls, milk shipped twice daily.

Date of inspection.—August 19, 1904. Name of place.—Tinton Falls. Name of dealer.—John H. Cook, Jr. How is milk stored?—Only about 16 quarts stored on premises; milk is gathered mornings from producers and delivered direct to customers. How are cans, bottles and utensils washed?—Warm water and "Miller's Powderine", rinsed with cold water. Any appliances for sterilizing cans, bottles and utensils?—No. Quantity of milk sold daily.—About 140 quarts. How is milk cooled?—The only milk cooled on premises is the 16 quarts stored over night. This is placed in a can and the can is set in a tub containing well water. The temperature of water in the well is 61 degrees F. Temperature of milk when sold.—Not learned. Where is the regular supply of milk obtained?—W. Casler,

W. Wilkins, George Wimple, Tinton Falls; W. Jackson, Shrewsbury Road. When short, where is supply obtained?—From other dealers. How many persons handle the milk?—Two. Are all in good health?—So stated. Date of last sickness on premises.—None reported. Source of ice supply.—None used. Source of water supply.—Dug well in yard covered with board platform which is leaky. Waste fluids are placed upon ground near well. Was sample taken for analysis?—Yes. Marks.—D-3,010.

Date of inspection.-August 19, 1904. Name of dairyman.-Peter Cas-Postoffice, township, county.--Tinton Falls, Shrewsbury ler. owner. Township, Monmouth Co. Location of dairy.—Tinton Falls. stable.—Cows stabled in a two story barn 42x24 feet, which is also used for storing hay. Cubic feet per cow.—Ample. Stable well lighted?—No light except that which enters through cracks. Material, construction and drainage of floor.—Boards laid crosswise in stalls directly upon the ground surface: no drainage. Method and frequency of cleaning—Stalls well bedded with straw and manure removed daily. Was stable clean at time of inspection?-No manure and abundance of bedding. Are sidewalls, ceilings and ledges kept free from cobwebs and dust?-No. Ever lime-washed?-No. Sources or water supply for watering stock.—Dug well 10 feet from stable and manure pile. Sources of water supply for washing cans, bottles and utensils.—Dug well in door yard 15 feet from dwelling, covered with leaky floor flush with ground surface. Distance of well or spring from stable.—About 140 feet. Distance from manure pile.—About 150 feet. Distance from privy vault.-About 60 feet. Is well apparently liable to contamination?—Yes, from waste fluids on ground and leaky covering. Temperature of water 60 degrees F. Was sample of water taken for analysis?—Yes. Marks.—D-3,011. Number of cows.—Six. Breed.—Common. State of health.—Said to be in good health. Ever examined?—No. Were cows in a cleanly condition at time of inspection?—Not seen. Amount, kind and quality of feed used.—Buckwheat, bran and corn meal in winter. Cows pastured?—Yes. How and where manure stored?—In stable yard. How frequently removed?—Three times each year. Quantity of manure at time of this inspection.—About 20 loads. How utensils washed and dried?—Warm water and soap powder, rinsed with hot water first and afterwards with cold water. Where are the utensils washed?-At dwelling. Any appliance for sterilizing cans, pails and dippers?—No. Bottles-how washed and dried?-None used. Quantity of milk produced daily?—About 60 quarts, Are milkers' hands washed before milking?—Yes. Are clean garments put on?—No. Udders of cows cleaned?—Yes. How? -With brush and rag. When pail is full of milk what is done with it?-Poured into cans. Where does the can stand?—On stable well covering. Is can kept covered?—Yes, with cheese cloth strainer. Is milk cooled?— Yes. How?—Place can in tub of water and stir milk with large spoon and stick. How long after milking?-Directly. To what temperature?-Temperature of water when drawn, 59 degrees F. Is milk bottled? How long after cooling? Where is milk bottled?—When Mr. Cook calls mornings for milk he brings bottles and fills them on the well platform. Where is milk stored?—In yard beside stable well. How long is milk stored before being shipped?—Over night. Source of ice supply.—None used. If shipped, to whom, and where?—Taken by J. H. Cook, Jr., Tinton Falls.

Date of inspection.—August 19, 1904. Name of dairyman.—Charles E. Wyckoff, owner. Postoffice, township, county.—Wayside, Shrewsbury Township, Monmouth Co. Location of dairy.—Wayside. Size of stable.— 26x36x7 feet from floor to rails forming ceiling, with hay loft above stable. Cubic feet per cow.—Ample. Stable well lighted?—One window 18x22 inches; light also enters through cracks. Material, construction and drainage of floor.—Board floor, no drainage. Method and frequency of cleaning.—Cleaned daily in winter. Was stale clean at time of inspection? -Yes. Cows kept in pasture, except during milking, during summer time. Are sidewalls, ceilings and ledges kept free from cobwebs and dust?—No. Ever lime-washed?—No. Sources of water supply for watering stock.— Brook in meadow and well in barn yard. Sources of water supply for washing cans, bottles and utensils.—Dug well 16 feet deep, beneath partly enclosed shed covered by plank platform, with cracks 4-inch wide. Waste water discharges from pump box through wooden gutter, about 20 feet from well upon surface of ground. Distance of well or spring from stable. -About 150 feet. Distance from manure pile.-About 150 feet. Distance from privy vault-About 45 feet. Is well apparently liable to contamination?-Yes, from pollution which may enter well through openings in its covering. Was sample of water taken for analysis?—Yes. D-3.021. Number of cows.—Nine. Breed.—Grade. State of health.—Said to be good. Ever examined?—No. Were cows in a cleanly condition at time of inspection?-Not seen. Amount, kind and quality of feed used.-Corn meal, wheat bran, fodder and ensilage. Cows pastured?—Yes. How and where manure stored?—In stable yard. How frequently removed?-About once each week. Quantity of manure at time of this inspection.-None. How utensils washed and dried?-Warn water and soda, rinsed and placed in open air to dry. Where are the utensils washed?-At dwelling. Any appliance for sterilizing cans, pails and dippers?-No. Bottles-how washed and dried?-None used. Quantity of milk produced daily?—About 100 quarts daily. Are milkers' hands washed before milking?-Yes. Are clean garments put on?-No. Udders of cows cleaned?-Yes. How?-Brushed, and if soiled, washed. When pail is full of milk what is done with it?—After milking each cow, poured over aerated into can. Where does the can stand?—In yard near stable. Is can kept covered?—Yes, with cheese cloth strainer. Is milk cooled?— Yes. How?—Poured over aerator filled with well water. How long after milking?—Directly. To what temperature?—Temperature of well water when drawn, (56 degrees F.) Is milk bottled?—No. Where is milk stored?—In yard. How long is milk stored before being shipped?—Over Source of ice supply.-None used. If shipped, to whom, and where?—Taken to Mr. J. H. Van Nest mornings.

Date of inspection.—August 20, 1904. Name of dairyman.—Malcom T. Bell, owner. Postoffice, township, county.—Eatontown, Eatontown, Monmouth Co. Location of dairy.—Eatontown. Size of stable.—27x14x7 feet. Cubic feet per cow.—About 529. Stable well lighted?—Yes. Three win-

dows 26x30 inches with sliding glass sash. Material, construction and drainage of floor.-Board floor with manure gutter draining into yard. Method and frequency of cleaning.—Cleaned with shovel and broom: sawdust used to keep floor dry. Was stable clean at time of inspection? Cows kept in pasture in summer except during milking sidewalls, ceilings and ledges kept free from cobwebs and dust?—No. Ever lime-washed?—No. Sources of water supply for watering stock.— Dug well beneath stable floor. Sources of water supply for washing cans, bottles and utensils.—Dug well 17 feet deep, 5 feet from dwelling; covered with stone flagging and wooden pump box in which is constructed a box with hinged lid through which milk in cans and other articles are lowered into the well for the purpose of keeping them cool. There is an outlet from the pump box into what is said to be a tile drain leading to the street gutter. Distance of well or spring from stable.—About 200 feet. Distance from manure pile.—About 200 feet. Distance from privy vault.— 50 feet. Is well apparently liable to contamination?—From the manner in which it is covered and by the use to which the well is put. Was sample of water taken for analysis?—Yes. Marks.—D-3,023. Number of cows.—5. Breed.—Jersey. State of health.—Apparently good. Ever examined?— Were cows in a cleanly condition at time of inspection?—Yes. Amount, kind and quality of feed used.—Ground corn, buckwheat, midlings shorts and bran. Cows pastured?—Yes. How and where manure stored?— On ground outside stable. How frequently removed?-Every fall and spring. Quantity of manure at time of this inspection.—About one cubic yard. How utensils washed and dried?—Warm water, soda or soap. Cans washed by the dealer who takes the milk. Where are the utensils washed?—In dwelling. Any appliance for sterilizing cans, pails and dippers?-No. Bottles-how washed and dried?-None used. Quantity of milk produced daily?--About 50 quarts. Are milkers' hands washed before milking?—Yes. Are clean garments put on?—No. Udders of cows cleaned?—Yes. How?—Always brushed and wiped off with rag. pail is full of milk what is done with it?—Poured into can. Where does the can stand?—Near well at dwelling. Is can kept covered?—Except while cooling. Is milk cooled?—Yes. How?—Set cans in tub of cold How long after milking?—Directly. To what temperature?— Temperature of water when drawn, 56 degrees F. Is milk bottled?—No. Where is milk stored?—Cans suspended to a rope down well. How long is milk stored before being shipped?—From morning until evening. Source of ice supply.-None used. If shipped, to whom, and where?-Taken by Van Nest every evening.

Date of inspection.—August 19, 1904. Name of dairyman.—Thomas J. O'Donohue, owner. Postoffice, township, county.—Shrewsbury, Shrewsbury, Monmouth Co. Location of dairy.—Shrewsbury. Size of stable.—62½x16x7½ feet. Cubic feet per cow.—About 312. Stable well lighted?—5 windows, 2½x5 feet. Material, construction and drainage of floor.—Plank floor with manure gutter 6 inches deep and 16 inches wide, with outlet in end to drain beneath floor. Method and frequency of cleaning.—Manure shoveled into wheelbarrow and removed to stable yard. The

manure gutter is washed with hose and broom every other day and the entire floor and sidewalls once each week. Was stable clean at time of inspection?—Yes. The plank floor had contained a coating of manure dried on. Are sidewalls, ceilings and ledges kept free from cobwebs and dust?— Yes. North Carolina ceiling and sidewalls which receives frequent washing with hose. Ever lime-washed?—No. Sources of water supply for watering stock.—Dug well on border of barn yard and brook in pasture. Sources of water supply for washing cans, bottles and utensils.—Artesian well the water from which is pumped by wind mill into tank. Distance of well or spring from stable.-200 feet. Distance from manure pile.-200 feet. Distance from privy vault.—None on place. Is well apparently liable to contamination?—No. Was sample of water for analysis?—No. Number Breed.—Guernsey, Jersey, Holstein. State of health.— Said to be and apparently is good. Ever examined?—Yes. By whom?— Dr. McCaffey. Date of last examination?—Last year. Were cows in a cleanly condition at time of inspection?—Yes. Amount, kind and quality of feed used.—Bran and midlings in winter; also beets, corn and hay. Cows pastured?-Yes. How and where manure stored?-In stable yard. How frequently removed?—Was cleaned last fall. Quantity of manure at time of this inspection.—About 200 loads of manure. How utensils washed and dried?—Washed in metal lined washing box, in which water is heated by live steam, cans and pails are then inverted over a steam pipe and a jet of streaming steam is turned into them. Where are the utensils washed? -In milk house. The milk house is a building standing separate from others, has a concrete floor, drained to a cesspool, there is a boiler for making steam. Any appliance for sterilizing cans, pails and dippers?-Flowing steam turned into cans and pails through pipe but no sterilizer. Bottles-how washed and dried?-None used. Quantity of milk produced daily?-150 quarts. Are milkers' hands washed before milking?-Yes. Are clean garments put on?—Overalls put on by milkers. Udders of cows cleaned?—Yes. How?—In mornings washed with water and wiped with cloth. When pail is full of milk what is done with it?-Poured into cans. Where does the can stand?—In stable building. Is can kept covered?— With wire and cloth strainer. Is milk cooled?—Yes. How?—Run over "Reid" cooler through which water from tank passes. How long after milking?-Directly. To what temperature?-Temperature of water when drawn from tank, 62 degrees F. Is milk bottled'?-No. Where is milk stored?-Cans placed in large cask containing water and ice. How long is milk stored before being shipped?—Over night. Source of ice supply.— Harvested on pond on place. If shipped, to whom, and where?--Delivered to Sheffield Farm Co., West End.

Date of inspection.—August 19, 1904. Name of dairyman.—Charles M. Patterson, owner. Postoffice, township, county.—Shrewsbury, Shrewsbury, Monmouth Co. Location of dairy.—Shrewsbury. Size of stable.—No. 1, 28x15x8; No. 2, 19x15x7 feet; No. 3, 34x15x7; No. 4, 24x15x8. Cubic feet per cow.—Stable No. 1, 560 feet; No. 2, 495 feet; No. 3, 714 feet; No. 4, 360 feet. Stable well lighted?—There are no window openings in stable. Some light and ventilation enters through cracks and openings over doors.

Material, construction and drainage of floor.—Earth floor, no drainage. Method and frequency of cleaning.—Manure removed every day, cows bedded with sawdust. Was stable clean at time of inspection?—Yes. During summer cows are kept in pasture field except during milking. Are sidewalls, ceilings and ledges kept free from cobwebs and dust?—No. The stalls are on ground floor of two story barn and the ceilings are formed by rails laid across beams above which hay is stored. Ever limewashed?-No. Sources of water supply for watering stock.-Brook in meadow and dug well beneath floor of barn used as wagon and store house. Sources of water supply for washing cans, bottles and utensils.— See 12. Water is pumped from this well into tank in stable and also tank in dwelling. Well is covered by a board platform and it is not protected by tight curbing and covering to prevent entrance of pollution. Distance of well or spring from stable.—50 feet from horse stable; 150 feet from cow barn. Distance from manure pile.—90 feet. Distance from privy vault.—No vault in use on premises. Distance from other sources of contamination.—36 feet from hog pen. Is well apparently liable to contamination?—Yes. Was sample of water taken for analysis?—Yes. Marks.— D-3,004. Number of cows.—26. Breed.—Grade. State of health.—Apparently good. Ever examined?—Not learned. Were cows in a cleanly condition at time of inspection?—Yes. Amount, kind and quality of feed used.—In winter sugar beets, bran, corn and hay. Cows pastured?—Yes. How and where manure stored?—In stable yard. How frequently removed?—Every fall. Quantity of manure at time of this inspection.— About 150 or 200 cubit yards. How utensils washed and dried?—Rinsed with cold water, washed with sapolio and cold water, then with hot water and pearline and again rinsed with cold water. Where are the utensils . washed?—In yard near milk house. Any appliance for sterilizing cans, pails and dippers?—No. Bottles—how washed and dried?—None used. Quantity of milk produced daily?—About 150 quarts. Are milkers' hands washed before milking?—Yes. Are clean garments put on?—No. Udders of cows cleaned?—Yes. How?—Wiped with cloth. When pail is full of milk what is done with it?—Poured into can. Where does the can stand?— In barn. Is can kept covered?—Yes, cheese cloth strainer. Is milk cooled?—Yes. How?—Set cans in tub containing water and ice. long after milking?—Directly. Is milk bottled?—No. Where is milk stored?—Not stored. Source of ice supply.—Harvested on pond on place. If shipped, to whom, and where?—Shipped twice each day to Smith & McNeil, New York.

Date of inspection.—August 22nd, 1904. Name of place.—Middletown Township. Name of dealer.—George H. Sanborn. Street and number.—Middletown Township. How is the milk stored?—Cans are placed in wooden tubs containing ice and water; these tubs stand in back yard of shed. How are cans, bottles and utensils washed?—Warm water and soda or some other washing powder. Any appliances for sterilizing cans, bottles and utensils?—No. Quantity of milk sold daily.—About 200 quarts. Is can kept covered?—No, lids tipped on cans. How is milk cooled?—Cans placed in tubs which contain water and ice. Temperature

of milk when sold?—Not known. Where is the regular supply of milk obtained?—J. A. Sanborn, L. Soffel, and J. M. Carhart, Middletown Township. When short, where is supply obtained?—Other milkmen in Red Bank. How many persons handle the milk?—One, Mr. Sanborn. Are all in good health?—So stated. Date of last sickness on premises.—None reported. Source of ice supply.—Brought from O. Hess, Red Bank. Source of water supply.—Dug well in yard 5 feet from back door. Water stands in well 8 feet from surface of ground, the well is covered by plank floor in a state of decomposition, laid flush with ground surface. Water falling from the pump spout, as well as dirt from the feet of persons standing upon the well covering, passes through the wide cracks and can be heard to fall into the water in the welll. Temperature of water when drawn, 60 degrees F. Was sample of water taken for analysis?—Yes. Marks.—D-3,014.

Date of inspection.—August 22nd, 1904. Name of dairyman.—Theodore M. Carhart, tenant. Postoffice, township, county.—Red Bank, Middletown, Monmouth Co. Location of dairy.—Middletown Township. Size of stable.— 20x12x9. While this stable is arranged for six cows by having six stalls there are but two cows now on the place. Cubic feet per cow.-1,030 when occupied by two cows only. Stable well lighted?—One window, Material, construction and drainage of floor.—Board floor with main gutters draining into barnyard. Method and frequency of claning. -In winter cleaned every morning. Was stable clean at time of inspection?—The cows are not stabled during summer and the stable is now in use for storage of farm products. Are sidewalls, ceilings and ledges kept free from cobwebs and dust? No. Ever lime-washed?—No. Sources of water supply for watering stock.—Well in dooryard. 13. Sources of water supply for washing cans, bottles and utensils.-Dug well ten feet from back door of dwelling, covered with plank platform flush with ground surface, with openings through which wash water and dirt may fall into the well. Distance of well or spring from stable.— About forty feet. Distance from manure pile.—50 feet. Distance from privy vault.-45 feet. Is well apparently liable to contamination?-Yes. Was sample of water taken for analysis?—Yes. Marks.—D-3,015. Number of cows.—Two. Breed.—Common. State of health.—Said to be good. Ever examined?-No. Amount, kind and quality of feed used.-In winter stalks and hay only are fed. Cows pastured?—Yes. How and where manure stored?-In stable yard upon the ground. How frequently removed?-Cleaned in fall. Quantity of manure at time of this inspection.--About five loads and pools of highly colored stagnant water stood in barnyard.

How utensils washed and dried?—With warm water and pearline, then rinsed with cold water and placed in the open air to drain and dry. Where are the utensils washed?—At dwelling. Any appliance for sterilizing cans, pails and dippers?—No. Bottles—how washed and dried?—None used. Quantity of milk produced daily?—About 14 quarts. Are milkers' hands washed before milking?—Yes. Are clean garments put on?—No. Udders of cows cleaned?—Yes. How?—Washed always before milking.

When pail is full of milk what is done with it?—Poured into can. Where does the can stand?—In yard near well. Is can kept covered?—Yes. Is milk cooled?—Yes. How?—Cans placed in tubs of well water. How long after milking?—Directly. To what temperature?—Temperature of water when drawn, 58 degrees F. Is milk bottled?—No. Where is milk stored?—In yard. How long is milk stored before being shipped?—Over night. Source of ice supply.—None used. If shipped, to whom, and where?—Taken by George H. Sanborn, Middletown Township.

Date of inspection.—August 22nd, 1904. Name of dairyman.—James A. Sanborn. Postoffice, township, county.—Red Bank, Middletown, Monmouth County. Location of dairy.-Middletown Township. Size of stable 30x22x7. Cubic feet per cow.—289. Stable well lighted?—Three window openings about 2x2, one of which is fitted with a glass sash, one covered with piece of burlap and one has a hinged board shutter. The opening last referred to is also used to throw manure through. Material, construction and drainage of floor.—Earth floor with plank manure gutter. the bottom of which is broken and leaky, back of manure gutter are pieces of boards embedded in soft earth and manure. Method and frequency of cleaning.—Not learned. Was stable clean at time of inspection?—No. Cows kept in pasture this time of year except during milking time. The stable floor, however, was well covered with fresh manure and the sides of stable at rear of stalls were thickly coated with dried manure to a height of four or five feet. Are sidewalls, ceilings and ledges kept free from cobwebs and dust?-No, the ceiling is formed by rails laid across beams, the second story of stable is used as hay loft. Ever lime-washed? Sources of water supply for watering stock.—Brook in pasture and well near stable, (see 13). Sources of water supply for washing cans, bottles and utensils.—Dug well 5 feet from horse stable and stable yard (see photograph); the well is covered with a plank platform raised about eight inches above the ground surface. The platform is not tight and the ground beside well is wet from waste water. There is a dug well at dwelling beneath the shed floor from which the pump has recently been removed and an open curb constructed around the well and, it was stated, it is the purpose to draw water from the well in open buckets by means of a rope or chain working over a pulley fastened to a beam beneath the shed roof. For some months past, since the pump has not been in working order in the well beneath shed floor, water for all uses on the dairy has been taken from the well near the barn. Distance of well or spring from stable.—3 feet. Distance from manure pile.—5 feet. Distance from privy vault.—About 150 feet. Distance from other sources of contamination.—The well is surrounded with sources of pollution. Is well apparently liable to contamination?—Stable well, yes. Was sample of water taken for analysis?—Yes. Marks.—D-3,016. Number of cows.-16. Breed.-Grade. State of health.-Apparently good. Ever examined?—No. Were cows in a cleanly condition at time of inspection?-Yes. Amount, kind and quality of feed used.-Not learned. Cows pastured?-Yes. How and where manure stored?-On ground on

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two sides of stable. How frequently removed?—Not learned. Quantity of manure at time of this inspection.—Ten cubic yards. How utensils washed and dried?—Milking pails with warm water and soda. Cans washed by Mr. George H. Sanborn, who takes the milk. Where are the utensils washed?—At dwelling. Any appliance for sterilizing cans, pails and dippers?—No. Bottles—how washed and dried?—None used. When pail is full of milk what is done with it?—Poured over aerator into can. Where does the can stand?—In carriage house. Is can kept covered?—Not learned. Is milk cooled?—Yes. How?—On aerator filled with well water. How long after milking?—Directly. To what temperature?—Temperature of water when drawn, 56 degrees F. Is milk bottled?—No. Where is milk stored?—Not stored on premises. Source of ice supply.—None used. If shipped, to whom, and where?—Taken twice each day by George Sanborn, Middletown Township.

Date of inspection.—August 22nd, 1904. Name of dairyman.—W. H. Lawes, D. V. S., owner. Postoffice, township, county.—Red Bank, Middletown, Monmouth Co. Location of dairy.—Middletown Township. Size of stable.—48x15x8. Cubic feet per cow.—720. Stable well lighted?—Two windows, 2x2. Material, construction and drainage of floor.—Earth floor, Method and frequency of cleaning.—Not learned. no drainage. stable clean at time of inspection?—During the summer the cows are kept in the open fields and are not placed in the stable. Are sidewalls, ceilings and ledges kept free from cobwebs and dust?—No. Ever lime-washed?— Sources of water supply for watering stock.—Well at stable and brook in meadow. Sources of water supply for washing cans, bottles and utensils.—Dug well in dooryard covered with plank platform flush with ground surface. The pump box discharges waste water on the ground surface beside well which has worn a channel in the earth as it flows toward the lane. Is well apparently liable to contamination?—The well is not covered in a manner to insure exclusion of surface drainage and dirt on covering. Was sample of water taken for analysis?—Yes. Marks.— D-3,017. Number of cows.—Eight. Breed.—Jersey and Grade. State of good. Ever health.—Apparently examined?—Yes. By whom?—Dr. Amount, kind and quality of feed used.—Not learned. Cows pastured?—Yes. How and where manure stored?—In stable yard. How frequently removed?—Not learned. Quantity of manure at time of this inspection.—None. Large pool of stagnant water in depression in surface of ground in stable yard. How utensils washed and dried?—Rinsed with cold water, washed with water and soda, then rinsed with hot water. Where are the utensils washed?—At dwelling. Any appliance for sterilizing cans, pails and dippers?—No. Bottles—how washed and dried?— None used. When pail is full of milk what is done with it?—Poured into can. Where does the can stand?—In yard near dwelling. Is milk cooled? —Yes. How?—Cans placed in tubs containing well water and milk stirred with metal ladle. How long after milking?—Directly. To what temperature?—Temperature of water when drawn, 58 degrees F. Is milk bottled?—No. Where is milk stored?—In yard. How long is milk stored before being shipped?—Over night. Source of ice supply.—None used at

present. If shipped, to whom, and where?—Taken to George Elgrin, Little Silver.

Date of inspection.—August 22nd, 1904. Name of dairyman.—Melville S. Reid, owner. Postoffice, township, county.—Red Bank, Middletown, Monmouth Co. Location of dairy.-Middletown Township. Size of stable. -30x18x8. Cubic feet per cow.-720. Stable well lighted?-Yes, through numerous cracks and 15 square feet of window openings. Material, construction and drainage of floor.—Earth floor with two boards embedded in earth at rear of stalls for manure to fall upon. Method and frequency of cleaning. Twice daily in winter the manure is shoveled into stable yard. Was stable clean at time of inspection?—No. In summer the cows are in pasture fields during the day, in stable during night. Are sidewalls, ceilings and ledges kept free from cobwebs and dust?-No. Pigeons are nesting and roost in the cow stable and their droppings cover the floor, trough in which the cows are fed, and in fact everything in the entire building. Ever lime-washed?-No. Sources of water supply for watering stock.—Brook in meadow and dug well on border of stable yard. Sources of water supply for washing cans, bottles and utensils.—Dug well near back door of dwelling, covered with leaky board platform. Waste liquids flow from the pump box upon the ground on the border of the well. Distance of well or spring from stable.—About 300 feet. Distance from manure pile.—About 300 feet. Distance from privy vault.— About 100 feet. Is well apparently liable to contamination?—Yes, from leaky covering and slops on ground near well. Was sample of water taken for analysis?-Yes. Marks.—D-3,018. Number of cows.—Six. Breed.—Common. Ever examined?—No. Were cows in a cleanly condition at time of inspection?—No. Amount, kind and quality of feed used. -In winter corn stalks, hay and corn meal. Cows pastured?-Yes. How and where manure stored?-On ground in stable yard. How frequently removed?—Spring and fall. Quantity of manure at time of this inspection.—About eight cubic yards. How utensils washed and dried?—Rinsed in cold water, then washed with warm water and soap, then rinsed with warm water and placed in open air to dry. Where are the utensils washed?—At dwelling. Any appliance for sterilizing cans, pails and dippers?--No. Bottles-how washed and dried?--None used. Quantity of milk produced daily?—About 25 quarts. Are milkers' hands washed before milking?—No, "not unless nasty." Are clean garments put on?— No. Udders of cows cleaned?—Yes. How?—Wiped off with rag. When pail is full of milk what is done with it?-Poured into cans. Where does the can stand?—In cow stable. Is can kept covered?-No. Is milk cooled?—Yes. How?—Cans placed in tub containing well water. long after milking?—Directly. To what temperature?—Temperature of water when drawn, 58 degrees F. Is milk bottled?—No. Where is milk stored?—In yard near well. How long is milk stored before being shipped?—Over night. Source of ice supply.—None used. If shipped, to whom, and where?—Taken by C. R. Bedel, Red Bank.

Date of inspection.—August 22nd, 1904 Name of dairyman.—George S.

Schanck, tenant. Postoffice, township, county.-Holmdel, Holmdel, Monmouth Co. Location of dairy. Holmdel. Size of stable.—20x14x9. cow stable is in part of two story barn and communicates with horse stable through open passage way. Cubic feet per cow.—350. Stable well lighted?-The only light admitted passes through cracks or doors when Material, construction and drainage of floor.—Earth floor with slight slope from front to open space beneath doors at rear of stalls. Method and frequency of cleaning.—Twice daily during winter. stable clean at time of inspection?-Contained no manure. During summer cows are only in stalls during milking time. Are sidewalls, ceilings and ledges kept free from cobwebs and dust?—No. Ceiling made by laying rails over beams thereby forming hay loft over stable. Ever limewashed?-No. Sources of water supply for watering stock.-Brook in meadow and a barrel sunk in the ground beneath the outfall of an underdrain at the foot of a slope from a field. Sources of water supply for washing cans, bottles and utensils.—Dug well in dooryard five feet from shed porch. Well covered with board platform raised about ten inches above ground surface, well covering leaky where pump passes through same. Waste liquids fall upon and flow over the surface of ground from border of well. Distance of well or spring from stable.—About 175 feet. Distance from manure pile.—About 200 feet. Distance from privy vault.— 32 feet. Is well apparently liable to contamination?-Yes, from waste liquids on ground near well. Was sample of water taken for analysis?— Yes. Marks.—D-3,019. Number of cows.—Eight. Breed.—Common. State of health.—Said to be good. Ever examined?—No. Were cows in a cleanly condition at time of inspection?-Not seen. Amount, kind and quality of feed used.—Not learned. Cows pastured?—Yes. How and where manure stored?-In stable yard on ground. How frequently removed?—Spring and fall. Quantity of manure at time of this inspection. -About forty cubic yards. How utensils washed and dried?-Rinsed with cold water, then washed in hot water to which Gold Dust has been added. then rinsed in cold water and placed in open air to dry. Where are the utensils washed?—At dwelling. Any appliance for sterilizing cans, pails and dippers?—No. Bottles—how washed and dried?—None used at this time. Quantity of milk produced daily?—About 70 or 80 quarts. milkers' hands washed before milking?—Yes. Are clean garments put Udders of cows cleaned?—Yes. How?—Brushed with rag. When pail is full of milk what is done with it?—Poured into can: Where does the can stand?—In yard near stable. Is milk cooled?—Yes. How?— Cans sometimes set in barrel beneath underdrain, then in cask of water near well. How long after milking?—Directly. To what temperature?— Temperature of water from underdrain, 64 degrees F.; well, 58 degrees F. Is milk bottled?—No. Where is milk stored?—In yard near well. How long is milk stored before being shipped?—Over night. Source of ice supply.-None used. If shipped, to whom, and where?-Taken to F. Deitz, Oceanic, once each day.

Date of inspection.—August 22nd, 1904. Name of dairyman.—Louis

Soffel, tenant. Postoffice, township, county.—Red Bank, Middletown, Monmouth Co. Location of dairy.—Middletown Township, near Lincroft. Size of stable.—43x13x7, two story barn with hay loft above stable. Cubic feet per cow.—About 390. Stable well lighted?—One pane of glass 9x8, ten inch board length of building over doors at rear of stalls is on hinges which is raised for ventilation. Material, construction and drainage of floor.—Earth floor: no drainage. Method and frequency of cleaning.— Manure said to be cleaned out nights and mornings. Was stable clean at time of inspection?—Yes. The cows are kept in pasture during day and in stable yard during night in summer. Are sidewalks, ceilings and ledges kept free from cobwebs and dust?—No. Ever lime-washed?—No. Sources of water supply for watering stock.—Brock in meadow and well at house. Sources of water supply for wishing cans, bottles and utensils.—Dug well walled up with stone, about 40 feet from surface of ground to water level, open curb around well and water is drawn by buckets on a rope which works over a pulley suspended from a beam, beneath well covering. Prior to last spring there was a wooden covering over the well and water was drawn by an iron pump. Distance of well or spring from stable.—About 400 feet. Distance from manure pile.—About 400 feet. Distance from privy vault.—About 130 feet. Distance from other sources of contamination.—Well located in front yard, 25 feet from any buildings. Is well apparently liable to contamination?—Only by entrance of contamination from open top. Was sample of water taken for analysis?—No. Number of cows. Ten. Breed.—Jersey. Holstein and Grade. State of health.— Said to be good. Ever examined?—No. Were cows in a cleanly condition at time of inspection?—Not seen. Amount, kind and quality of feed used. -In winter ground feed, hay and roots. Cows pastured?-Yes. How and where manure stored?—In stable yard. Quantity of manure at time of this inspection.-Very little. How utensils washed and dried?-Washed in hot water and placed in open air to dry. Where are the utensils washed?-At house. Any appliance for sterilizing cans, pails and dippers?—No. Bottles—how washed and dried?—None used. Quantity of milk produced daily?—About 80 quarts. Are milkers' hands washed before milking?—So stated by employee. Are clean garments put on?—No. Udders of cows cleaned?—Yes. How? Washed with water and cloths. When pail is full of milk what is done with it?-Poured into can. Where does the can stand?-In yard outside of barnyard. Is can kept covered?-Yes, with cheese cloth strainer. Is milk cooled?—No. Is milk bottled?—No. Where is milk stored?—Not stored. Source of ice supply.—None used. If shipped, to whom and where?—Taken to George Sanborn, directly after milking, twice daily.

Date of inspection.—August 22nd, 1904. Name of dairyman.—Christian Soffel, owner. Postoffice, township, county.—Red Bank, Middletown Township. Location of dairy.—Lincroft, Middletown Township. Size of stablė.—Space 35x9x7 feet in two story barn with opening into horse stable, 22x15x7 feet. Nine cows and two horses stable in this building, hay 10ft over stable. Cubic feet per cow, about 410 cubic feet for each

animal kept in stable. Stable well lighted?-No windows, some light enters through openings beneath doors, back of stalls. Material, floor.-Clay floor with construction and drainage of openings stall beneath doors at rear of each to drain into Method and frequency of cleaning.—Twice daily. Manure shoveled into yard, meadow grass used for bedding. Was stable clean at time of inspection?-No manure in stalls. In summer cows are in pasture except when put in stalls to feed mornings, noons and nights. Are sidewalls, ceilings and ledges kept free from cobwebs and dust?-No. Doors rear of stalls have coating of manure dried on them to height of four or five feet. Ever lime-washed?—No. Sources of water supply for watering stock.-Dug well with open curb, beside stable building. Sources of water supply for washing cans, bottles and utensils.-- Dug well, about twenty feet deep located beneath kitchen floor. A lard firkin sets beneath pump spout to catch the drip and the floor over the well, around the pump, is saturated. The floor over the well is not water-tight. Distance of well or spring from stable.—About 200 feet. Distance from manure pile.—About 220 feet. Distance from privy vault.—30 feet, vault full to overflowing. Distance from other sources of contamination.—75 feet to hog pen. Is well apparently liable to contamination?—Yes. Was sample of water for analysis?-Yes. Marks.-D-3,020. Number of cows.-State of health. -- Said to be good. Breed.—Holstein and Jersey. Ever examined?—No. Were cows in a cleanly condition at time of inspection?-Yes. Amount, kind and quality of feed used.-Bran, middlings and oats, also cut hay. Cows pastured?—Yes. How and where manure stored?-Stable yard on ground. How frequently removed?-Twice each year, spring and fall. Quantity of manure at time of this inspection.-About 50 cubic yards. How utensils washed and dried?—With soap and hot water, rinsed with cold water and placed in open air to dry. Where are the utensils washed?—At dwelling. Any appliance for sterilizing cans, pails and dippers?-No. Bottles-how washed and dried?-Same as Quantity of milk produced daily?-About 200 quarts. milkers' hand washed before milking?-Yes. Are clean garments put on? -No. Udders of cows cleaned?-Yes. Mr. Soffel's son, one of the milkers, stated that the milk from three teats of one cow in the nerd is white and cakey in appearance when drawn, and for that reason its use is rejected. Milk from the fourth teat of the cow is put into the milk sent to market. The cow first developed one diseased teat, which gradually spread to others. How?-Washed with water and dried with rags. When pail is full of milk what is done with it?-Poured into can. Where does the can stand?—Near stable well. Is can kept covered?—With cheese cloth strainer. Is milk cooled?-Yes. How?-Cans placed in tubs containing well water. How long after milking?—Directly. To what temperature?-Temperature of water when drawn, 56 degrees F. Is milk bottled? About seven bottles only, morning's milk. How long after cooling?—15 minutes after milking. Where is milk bottled?—At dwelling. Where is milk stored?—In shed, cans covered with cheese cloth and set in

tubs of water containing ice. How long is milk stored before being shipped?

—Over night. Source of ice supply.—Harvested on nearby pond. Temperature of milk when delivered to customers?—Not known. Quarts sold from cans?—About 200 quarts. Quarts sold in bottlees?—About six or seven quarts. Ever run short?—Yes. If so, where is supply obtained? All in good health?—So stated. Date of last sickness among persons on dairy premises?—None reported.

Date of inspection.—September 16, 1904. Name of dairyman.—James Covert, tenant. Postoffice, township, county.—Eatontown, Eatontown, Location of dairy.—South Eatontown. Monmouth. Size of stable.-No. 1, 14x16x7 feet, stables four cows; No. 2, 14x30x7 feet, stable for eight cows. Cubic feet per cow.—Stable No. 1, about 392; stable No. 2, about Stable well lighted?-No windows; some light enters through cracks in building. Material, construction and drainage of floor.—Earth floor; no drainage. Method and frequency of cleaning.—Every morning in winter. Cows not stabled in summer nor during day in winter. Was stable clean at time of inspection?—Yes. Are sidewalls, ceilings and ledges kept free from cobwebs and dust?-No. Hay loft with rail floor over stable. Ever lime-washed?—No. Sources of water supply for watering stock.—Brook in meadow and dug well in corner of barn yard. Sources of water supply for washing cans, bottles and utensils.—Dug well located beneath shed floor at dwelling. Well 39 feet deep with about 9 feet of water in well. Distance of well or spring from stable.—About 200 feet. Distance from manure pile.—About 225 feet. Distance from privy vault.-69 feet. Distance from other sources of contamination.-30 feet from leaking cesspool. Is well apparently liable to contamination?-Drain leading from border of well to cesspool obstructed and overflowing near border of well; surface drainage from well. Was sample of water taken for analysis?—Yes. Marks.—D-3,022. Number of cows.— Breed.—Grade. State of health.—Said to be good. examined?—No. Were cows in a cleanly condition at time of inspection? -Not sure. Cows pastured?-Yes. How and where manure stored?-In barn yard. How frequency removed?—Every fall. Quantity of manure at time of this inspection.—About 50 or 60 cubic yards. How utensils washed and dried?—Rinsed with cold water, washed with hot water and soda, then rinsed with hot water and placed on fence to dry. Where are the utensils washed?—In yard beneath tree. Any appliance for sterilizing cans, pails and dippers?-No. Bottles-how washed and dried?-Practically no bottles used. Quantity of milk produced daily 2. About 70 to 80 quarts. Are clean garments put on?—No. Udders of cows cleaned?— How?—Rubbed with hands by milkers. When pail is full of milk what is done with it?-Poured into can. Where does the can stand?-Near well outside of barn yard. Is can kept covered?—Yes, with muslin strainer. Is milk cooled?—Yes. How?—Cans placed in tubs containing well water and milk, stirred with dipper. How long after milking?—Directly. what temperature?-Temperature of water when drawn, 54 degrees F. Is milk bottled?—Only three or four quarts. Where is milk stored?— Near barn yard well, in open yard. How long is milk stored before being

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shipped?—Over night. If shipped, to whom, and where?—Distributed in Red Bank. Temperature of milk when delivered to customers?—Not known. Quarts sold from cans?—About 80 Quarts sold in bottles?—Three of four. Ever run short?—Yes. If so, where is supply obtained?—From other dealers. How many persons handle the milk?—Three. All in good health?—So stated. Date of last sickness among persons on dairy premises?—None reported.

# New Jersey Sanitary Association,

The program for the thirtieth annual meeting of the New Jersey Sanitary Association makes the following announcements:

First Session.—Friday, December 9th, 3.30 P. M.—1. Introductory Remarks and Announcements, H. B. Francis, Chairman Executive Council. 2. Malaria, —(a) Prevalence and Fatality of Malarial Affections in New Jersey, Dr. D. E. English, Millburn, N. J.; (b) The Etiology of Malaria, Dr. J. T. Wyckoff, Leonia, N. J.; (c) Laboratory Diagnosis of Malaria, Dr. George McLaughlin, Jersey City; (d) The Prevention of Malaria, Dr. S. E. Armstrong, Rutherford, N. J. 3.—Reports of Chairmen committees on Civic Sanitary Societies, Rev. Adolph Roeder, chairman; Improvement of the Sanitary Service, Dr. J. L. Leal, chairman; Publication Committees, Dr. D. C. English, chairman. 4.—Miscellaneous business

Evening Session.—Friday, December 9th, at 8 o'clock. 5.—Prayer, Rev. C. P. Butler, Lakewood, N. J. 6.—President's Address, Municipal Sanitation in Great Britain, M. N. Baker, C. E., Montclair, N. J. 7.— Oysters and Clams as Vehicles for the Transmission of Typhoid Fever, Dr. Edward Guion, Atlantic City, N. J. 8.— Is There Any Hygienic Objection to the Proposed Discharge of the Sewage of the Passaic Valley Into New York Bay? Edlow W. Harrison, C. E., Jersey City, and George A. Soper, Ph. D., New York City. 9.— Illustrated Discussion of Some Successful Sewage Disposal Works, F. Herbert Snow, C. E., Boston, Mass.

Third Session.—Saturday, December 10th, 9 A. M. 11.— Medical Inspection of Schools, Dr. Joseph Tomlinson, Bridgeton, N. J. 12.— Can an Outbreak of Measles be Controlled? Dr. T. N. Gray, East Orange, N. J. 13.— To What Extent is Isolation Necessary in Communicable Diseases? Dr. Gordon K. Dickinson, Jersey City. 14.— Prevention of the Sale of Adulterated Milk, John O. George, D. V. S., Camden, N. J. 15.—Election of officers. 16.—Miscellaneous business. 17.—Adjournment.

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# Report on the Burlington County Jail.

BY A. CLARK HUNT, M. D., STATE MEDICAL INSPECTOR.

The Burlington County jail was inspected on January 14, 1904, and again on January 27, 1904. The institution is located in Mount Holly, adjoining the Court House. It was built in the year 1800, and the construction is of stone. The four main compartments and a portion of the tramps' quarters are divided into a corridor, three cells and a bath room. The corridors are four feet in width, and each cell is five feet nine inches by eight feet. The height of the ceiling is eight feet. The bath and wash room is five feet nine inches wide and twelve feet long. The air space of this portion of the jail is 1896 cubic feet, and with the nine or ten persons who are usually confined in each of these sections the cubic space per inmate is 189 cubic feet. With the exception of that portion which is used for the detention of women, the cells ... and corridors are insufficiently lighted, and there is no provision for ventilation. The clothing of the inmates is washed in the bath tubs, and there is but one water closet fixture in each of the apartments. In the basement of the jail there is a part which is used for the detention of persons for slight offenses, such as vagrancy, drunkenness, etc. This portion of the jail consists of a corridor, three cells and a bath room similar to the other apartments, but there are also two extra rooms. The corridor, three cells and the bath room are the same size as those heretofore described, and the two extra rooms have the following dimensions: The larger one, in which there is a fire place, is twelve feet six inches in width by twenty-one feet in length, and the ceiling is eight feet in height. The smaller room is twelve feet long by twelve feet wide, and has a ceiling eight feet in height. Leading to the cells is a corridor forty-two feet long, five feet six inches wide and eight feet in height. The total air space in this portion is 6006 cubic feet. This allows for fifty-eight inmates, the average number, 120 cubic feet of air space, and at the time of the first inspection, as there were eighty-nine inmates, the cubic air space was then seventy-seven cubic feet per inmate. On January

27, there were ninety-two prisoners confined within the jail, and of this number fifty-eight were tramps and vagrants. In examining that portion of the jail in which the tramps and vagrants are confined it was necessary to pass through a dark corridor, and on either side of this corridor, and in the cells and bath room, inmates were seated on the floor so that it was almost impossible to pass between them. Many of them were in their shirt sleeves, and some were lying on mattresses placed upon the floor. this corridor is located a furnace which supplies heat to a portion of the jail which is located above, and no inlet for fresh air has been provided. By this arrangement the heated air which is supplied on the floor above is obtained from the vitiated atmosphere below. Prisoners are fed in the corridors and cells. provision whatever is made for the systematic bathing of the inmates, and no towels were noticed in any of the prisoner's quar-The water supply used in the institution is obtained from the public mains, and sewage is discharged into the public sewer system. The detaining of individuals under such conditions is not only a reflection upon the county, but is a menace to the health of the prisoners, and there is every reason to believe that it is conducive to the spreading of any contagious disease should it be introduced within the confines of the jail. Three times each week the prisoners are taken into the yard, and this portion of the jail is thoroughly washed, but it is impossible with the present construction to confine so many persons within the limited space which is available without producing extremely unsanitary conditions.

In discussing the reason for such conditions, and in endeavoring to ascertain why an institution so constructed is tolerated by the better citizens of the county, it was learned that the prisoners are not the usual class of vagrants. As the county is an agricultural county, there are a number of men that during the summer months are able to secure a livelihood by working upon the cranberry bogs, and also by picking berries and assisting in the marketing of vegetables. As soon as the seasons close for these classes of work the men, having spent the money which they have earned, begin to seek means by which they may be cared for by the county, and, therefore, slight criminal acts are performed and sentences of from ten to thirty days are imposed by the justices. As a result, the jail is filled to overflowing during the winter months, and especially in times of extreme cold. As soon as the spring comes the prisoners are ready to resume work

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for the summer and fall. It is argued that if this method were not followed that, with the difficulties which now exist in getting labor to work upon farms, it would be almost impossible for the farmers in Burlington County to secure the help which is necessary to market crops. For these reasons the taxpayers in the county are willing to assist in supporting such individuals during the winter. It is scarcely credible that such conditions should be permitted to exist for any reason, and steps should be taken to urge upon the Board of Freeholders, and the public-spirited citizens of the county, the immediate necessity of providing ample accommodations for the care of such prisoners during the winter.

The only relief that will be permanent is the construction of a new jail.

# Circulars and Laws.

The following bills relating to public health were introduced during the legislative session of 1904:

#### ASSEMBLY BILLS, 1904.

No. 39, Mr. Lehlbach. Constitutes a state board of examiners to license barbers, to be appointed by the governor, one boss barber and one journeyman barber for three years; one boss and one journeyman barber for two years, and one physician annually. All applicants to be duly examined and licensed by such board, which shall organize and provide for all details.

\*No. 96, Mr. Duffield. Amends the act relative to the powers of local boards of health.

No. 163, Mr. McGlennon. Requires all ferryboats to have toilet rooms for each sex.

No. 164, Mr. Wilson. Authorizes boards of health in cities and boroughs to appoint a board of four members who shall license all plumbers, etc.

No. 174, Mr. Pennington. Authorizes the governor to appoint five persons to be known as the board of undertakers and embalmers of the state of New Jersey, who shall license all candidates and regulate the practice of embalming, burial and disposal of dead human bodies.

\*No. 184, Mr. Ayres. Amends the pure food and drug bill relative to the standard of drugs.

\*No. 190, Mr. Robbins. Requires persons to whom milk is shipped in cans to remove all milk therefrom and thoroughly cleanse and rinse the same before returning them. Penalty \$25 fine, etc.

No. 208, Mr. Lehlbach. A stringent act to prevent the pollution of the water supply of any municipality. Forbids throwing or depositing into any supply of water for cities, etc., any dead animal, offal, offensive matter or thing detrimental to health, or draining any sewage, etc., therein; \$50 penalty for each offense.

\*No. 222, Mr. Duffield. Authorizes recorders and police justices to enforce ordinances of boards of health.

No. 225, Mr. Henry. Requires the state board of health to provide laboratories and apparatus to make and prepare diphtheria anti-toxin for free distribution to the inhabitants of the state.

No. 247, Mr. Ayers. Provides that not more than \$25,000 may be appropriated for the purchasing of a site and the erection and equipment of a building for the uses of the state laboratory of hygiene.

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\*No. 298, Mr. Gallagher. Empowers boards of health in cities to designate from their sanitary inspectors one or more who shall be designated as inspectors of foods and drugs.

No. 372, Mr. Shaw. Amends the pure food act relative to review of judgments found thereunder.

No. 382, Mr. Lange. Requires poisons, etc., shall, when sold, be placed in such vial or bottle, and so corked as to apprise the party uncorking the same, by the sense of touch, that poison is contained there.

No. 422, Mr. Hulse. Empowers boards of health to examine applicants for license as health officers.

#### SENATE BILLS, 1904.

\*No. 55, Mr. Bradley. Authorizing cities to improve and enlarge water supplies by the use of artesian wells or otherwise.

\*No. 56, Mr. Bradley. An act to regulate the sale of cocaine in any form.

\*No. 86, Mr. Bacheller. Regulates age, employment, safety, health and

work hours of persons in factories and workshops and establishes a department for enforcement of the act. New factory and workshop act prepared under governor's supervision.

\*No. 87, Mr. McKee. Authorizes towns, townships, boroughs or villages to contribute towards the maintenance of patients in any public hospital in the state.

\*No. 143, Mr. Lee. Authorizes governing bodies of municipalities to regulate or prohibit the distribution of sample packages of medicines or preparations represented as curative of bodily ailments and imposing a penalty of \$50 for violation.

\*No. 178, Mr. Cross (for the president). Authorizes the state board of health, through the court of chancery to prohibit by injunction the feeding of milch cows on swill or other unwholesome food and to prevent the sale or offer for sale of milk from cows so fed.

\*No. 192, Mr. McKee. Authorizes appointment of a bi-partisan board of health of ten members in Jersey City by the mayor, exempts Newark.

No. 222, Mr. Cross. Repeals act of March 21, 1900, which provided for the examinations of vessels entering ports of this state that might have communicable diseases.

These bills became laws.

# CIRCULARS.

The following circular was issued in July, 1904:

1. The Mortality from Certain Preventable Diseases in New Jersey during the past nine years is shown in the following table:

Consumption	1894.	1895. 3,542	1896. 3,758	1897. 3,237	1898. 3,225	1899. 3,584	1900. 3,514	1901.	1902. 3,015
Diarrhocal Diseases of	3,433			3,237	-		3,314	3,257	
Children	3,893	3,746	3 807	3,450	2,95&	3,563	3,010	1,895	1,878
Diptheria	1,294	1,464	1,758	1,382	950	777	927	683	683
Typhoid Fever	485	568	577	478	450	496	356	352	428
Scarlet Fever	272	264	183	203	201	187	220	179	217
Whooping-Cough	328	272	275	321	155	282	306	157	28 I
Measels	257	95	390	155	192	96	231	77	204
Small-pox	11	23	2	• • • •	• • • •	• • • •	5	142	432
Malarial Fever	162	144	119	132	82	96	84	50	36
Totals	10,135	10,118	10,869	9,358	8,213	9,076	8,653	6,792	7,174

During the past twenty-four years (1879-1902) these diseases have caused 222,402 deaths in New Jersey, or an annual average of 9,266 +.

GENERAL INSTRUCTIONS FOR PREVENTING THE SPREAD OF DIPHTHERIA, SCARLET FEVER, TYPHOID FEVER AND SMALL-POX.

- 2. Isolation of the Sick.—Promptly separate the sick person from the other occupants of the house, placing him, if possible, on the upper floor of the building and removing all hangings, carpets and other unnecessary articles of furniture and clothing from the room. In cases where the dwelling does not permit absolute separation of the patient from other members of the household, he should be removed to an isolation hospital. No article whatever should be carried from the sick-room until it has been treated as described in paragraphs 4, 5 and 8.
- 3. Disinfection of the Discharges.—All excreta from the sick person should be received in a porcelain vessel containing half a pint of a solution of corrosive sublimate. The solution should be made as follows: Corrosive sublimate, one-half ounce; muriatic acid, one ounce; aniline blue, five grains; water, four gallons. This solution is poisonous. Another half pint of the solution should be added to the discharges before they are emptied into the water-closet.
- 4. Disinfection of Utensils.—Dishes, spoons and other utensils, used by the sick person, should be placed in a metallic vessel holding not less than one gallon of water. This vessel should be

placed outside of the door of the sick-room, and twice in each twenty-four hours it should be removed to the kitchen range and its contents should be boiled for at least thirty minutes.

- 5. Disinfection of Sheets, Undergarments, &c.—Towels, undergarments, sheets and pillow-cases should be immersed in water in a metallic wash-boiler and boiled for not less than one hour. Soft paper and small pieces of cotton cloth should be used instead of handkerchiefs, for receiving discharges from the mouth and nose, and when soiled these should be immediately burned in the sick-room.
- **6. Nurses.**—Persons attending on the sick should remain within the isolated apartments. Dresses of washable material should be worn.
- 7. Precautions During Convalescence.—The scales and dust from the skin in scarlet fever, small-pox and measles are highly infectious, and all portions of the surface should be rubbed with vaseline every day to prevent the dry particles from being carried about by air currents. When sufficiently recovered, the patient should have a warm bath every day until the skin has ceased to peel off. When the patient leaves the isolated apartments or premises, he should first be bathed, including thorough washing of the hair and scalp, and be clothed in uninfected garments, and no article whatever should be removed from the infected premises until after the final disinfection of the sick-room.
- 8. Final Disinfection of the Sick-room—Articles which are of little value should be burned in the sick-room. After removal of the patient, all clothing, bedding and other articles which can be transported should be exposed for thirty minutes to a temperature of 240° in a steam sterilizing chamber.

In localities where no such disinfecting chamber is provided, all of the contents of the room should be treated by the free application of a solution of corrosive sublimate (see paragraph 3). This can be done effectually by (a) immersing all clothing, garments, sheets, blankets, &c., in wooden tubs containing the solution, and by thoroughly saturating with the solution all of the articles in the room, including the mattresses, pillows and carpet, and also the side walls, woodwork and floors, by the use of a garden pump and hose with a large rose or spray-producing nozzle. The woodwork and furniture should immediately afterward be scrubbed

with soap and water, and be wiped dry. Disinfection of garments can also be affected by (b) placing them, one by one, with as little folding as possible, in trunks, or in boxes, and applying to each layer of the goods, by the use a small sprinkling pot, a 40 per cent. solution of formaldehyde gas (formalin). The receptacle containing the articles thus treated should be closely covered. After twenty-four hours the wash-goods should be boiled and then washed with soap and water.

- **9. Disinfection of Refuse.**—All masses of infected filth, in privy pits or in heaps or piles, should be covered liberally with dry chloride of lime.
- ro. Precautions in Case of Death.—In case of death the body should be enveloped in sheets saturated with the solution of corrosive sublimate (see paragraph 3) and be placed in a coffin as soon as possible. The burial should take place without delay, and the funeral should be strictly private.
- rr. Attendance of Children at School.—Children should not be allowed to attend day-school nor Sunday-school from a house in which there is an infectious disease. No child should be allowed to return to school until a certificate from the medical attendant shows that there is no longer any danger that other children will be infected.
- 12. Cleansing School Buildings. —Each day during the prevalence of infectious disease, after the school is dismissed, all parts of doors, casings and other woodwork of the infected apartment which can be touched by the hands of the children, including seats and desks, should be scrubbed with warm water, soap and a stiff scrubbing-brush.

The floor should be in good repair and without open cracks or crevices. It should be sprinkled with clean water daily before being swept.

The difficulty attending the cleansing of books should cause great care to be taken by teachers to prevent books from being passed from hand to hand, or touched by anyone except the child to whom they belong or to whom they have been assigned. Books which have been used by a pupil who is suffering from any one of the communicable diseases should be destroyed by fire, or they may be treated by exposure to formaldehyde gas in a small air-

tight space. A box or cabinet may be conveniently employed for this purpose, and the gas can be liberated by exposing formalin upon a shallow dish inside of the box. Books should be so placed that the leaves will fall apart. Pencils and other articles in daily use by the pupils may also be disinfected by placing them in this cabinet. The cabinet should remain closed for at least twelve hours.

During each vacation the walls and woodwork, including doors, desks and floors, should be wetted with a solution of bichloride of mercury (see paragraph 3), and the windows should be kept open to admit great floods of sunlight and pure air. Finally scrub with clean water.

Water coolers are unclean and unnecessary. They should not be allowed in school buildings. When practicable, drinking fountains, consisting of jet of water rising from the center of a piece of marble, requiring no cups, should be supplied.

Individual seats and desks should be provided in every school.

Light and airy cloak-rooms should always be provided, and hooks should be so separated that the garments of different pupils will not come in contact.

It has been shown that diphtheria is less prevalent during vacation periods than during school terms, and that it is spread through short distances only, and by contact between infectious particles and the mucous membranes. When children are massed together in large numbers in school buildings, the danger is great that some one of them may be carrying the bacilli of diphtheria in throat and nose, and that the infectious material may be smeared upon door-knobs, hand-rails, slates, books, lead pencils, desks and floors. Assuming that no child will contract the disease unless the bacilli are actually planted directly upon the mucus surfaces, it is not difficult to believe that such transfer from door-knob, slate, desk, &c., does in each case occur. The fingers and the mouth are in very intimate relation in the case of nearly every school child.

- a. The best and safest protection against the spread of diphtheria seems to lie in the following measures:
- b. Bacteriological examinations in the case of convalescents, and in the cases of persons known to have been exposed to the infection, to learn when the bacilli have ceased to be present.
  - c. Isolation of all affected persons during the infective period.
- d. The immediate destruction or efficient disinfection of all discharges from the nose and throat in the case of infected persons, and the disinfection of infected articles and premises.

The measures employed to prevent the spread of the dangerous infectious diseases, and which have the support and approval of physicians and the public, cannot be successfully enforced against those affections which cause but few deaths, for example, mumps, rotheln, &c.

# 13. Incubation Periods and Duration of Infectiousness of Certain Communicable Diseases.

#### DIPHTHERIA.

Incubation period.<sup>2</sup>—Least, unknown; average, two days; greatest, seven days.

Period of observation of exposed persons.—Seven days from

last exposure to infection.

Infective period.—From the commencement of symptoms during the whole period of the illness and convalescence, and until repeated bacteriological examinations show that the specific bacillus has disappeared. The bacillus persists in the mouth and throat for a considerable time after the false membrane has vanished. It is not safe, therefore, to permit patients who have recovered, even although their tonsils appear healthy, to mingle with other persons until at least fourteen days shall have elapsed since the disappearance of the membrane.

Sources of infection—

1. From a previous case of diphtheria.

2. From a case of apparently simple tonsilitis or sore throat.

3. From a case of apparently simple nasal ulceration.

4. From domestic animals (cats, pigeons, fowls) suffering from a throat affection.

5. From infected cows' milk.

- 6. From infected bedding, clothes, carpets, curtains, books, toys, drinking cups, spoons, forks, lead pencils, &c.
- 7. From a person who has been in contact with a diphtheria patient, but who has not himself contracted the disease.

#### SCARLET FEVER.

Incubation period.—Least, less than twenty-four hours; average, one to three days; greatest, seven days.

<sup>1</sup> Compiled mainly from "Infectious Diseases," by Louis C. Parkes, M. D., London, 1894.
2 The incubation period is the period between the exposure to infection and the first appearance of symptons of illness.

Period of observation of exposed persons.—Seven days from last exposure to infection.

Infective period.—From the earliest appearance of symptoms (usually sore throat) until all desquamation has ceased.

Sources of infection—

- 1. From a previous case of scarlet fever.
- 2. From a case of sore throat without discoverable rash, but really a mild form of the disease.
- 3. From infected milk.
- 4. From infected books, toys, dishes, garments, &c.

Diagnosis.—Nausea or actual vomiting is rarely absent. Sore throat may be present without the patient complaining, and an examination should be the routine with children; in scarlatina the pharynx, soft palate, tonsils and hard palate present a red punctiform appearance which is easily recognized. The temperature in the beginning is 100 to 104 deg. I., and the next day it falls, to rise again in the evening. It generally becomes normal by the eighth or ten day. The pulse is more character-Istic, seldom being below 120 and often continuing rapid after the temperature is normal. The rash is never seen on the end of the nose or around the lips, and appears first where the skin is sofest, as in the flexure aspect of the arms, the sides of the chest, the lowest part of the abdomen, the upper part of the thighs and in the axilla. It is almost invariably out by the third day. At the flexed elbow, at Poupart's ligament and behind the flexed knee, a browning along the folds of the skin is noted. tongue is coated heavily and the injected papillae show through; when the coating strips off, the true "strawberry" tongue is seen. This is a red (not coated) tongue, bearing red papillae. In a doubtful case the author excludes scarlatina if the patient has had the disease; if not, he examines for rash on palate, backs of hands or sides of fingers, browning of the flexures, stripping of the tongue and reddish spots, smaller and more acuminate than rose spots, on the lower limbs. These, with vomiting or nausea, justify isolation. Otorrhea is sometimes the first marked manifestation in mild cases. In measles the rash appears on the fourth day of catarrhal symptoms and appears first on the face and upper parts of the body. It consists of raised, reddish-brown crescentic spots. rubella the pulse is slower and the patient does not feel ill in proportion to the amount of the rash. The peeling of the tongue is absent, and vomiting is rare. Other diseases occasionally closely simulating scarlet fever are meningitis, typhoid fever, septicemia, rheumatic fever, urticaria and erythema, but these can be distinguished in the course of the disease.1

#### MEASLES.

Incubation period.—Least, four days; average, nine to ten days; greatest, fourteen days.

I J. M. Day, Dublin " Journal of Med. Science," March, 1902.

Period of observation of exposed persons.—Fifteen days from

last exposure to the infection.

Infective period.—From the earliest appearance of symptoms until convalescence is well established. The catarrhal stage preceding the eruption is very infectious.

Sources of infection—

1. From a previous case of measles.

#### MUMPS.

Incubation period.—Least, fourteen days; average, twenty-one days; greatest, twenty-five days.

Period of observation of exposed persons.—Twenty-five days

from last exposure to infection.

Infective period.—From the onset of the prodromal stage (which may last three or four days) and for two or three weeks subsequent to the appearance of the parotitis. The chance of the infection being propagated diminishes progressively from the onset of the parotitis.

Sources of infection—

1. From a previous case of mumps.

2. From infected articles.

#### GERMAN MEASLES.

Incubation period.—Least, five days; average, eighteen days; greatest, twenty-one days.

Period of observation of exposed persons.—Twenty-one days

from last exposure to infection.

Infective period.—From the onset of the prodromal or preeruptive stage until the cessation of desquamation.

Sources of infection—

1. From a previous case of German measles.

2. From infected articles.

#### INFLUENZA.

Incubation period.—Least, less than twenty-four hours; average, three to four days; greatest, five days.

Period of observation of exposed persons.—Five days from

last exposure to infection.

Infective period.—From the earliest onset of the symptoms until convalescence is well established.

Sources of infection—

1. From a previous case of influenza.

2. From infected articles.

#### WHOOPING-COUGH.

Incubation period.—Least, seven days; average, not determined; greatest, twenty-one days.

Period of obscrvation of exposed persons.—Twenty-one days

from last exposure to the infection.

Infective period.—During the whole of the illness from the onset of the earliest catarrhal symptoms.

Sources of infection—

1. From a previous case of whooping-cough.

2. From infected articles.

#### SMALL-POX.

Incubation period.—Least, nine days;\* average, twelve days; greatest, fifteen days.

Period of observation of exposed persons.—Fifteen days from

date of last exposure to infection.

Infective period.—From the onset of initial symptoms until all scabs have been removed. The period of greatest infectivity is during the acute stage (vesicular and pustular). During the initial illness, and until the appearance of the rash, the liability to impart infection is not great; therefore, isolation of a case very shortly after the appearance of the eruption, when associated with measures of vaccination, re-vaccination and disinfection, is very commonly effective in preventing further spread of the disease.

Sources of infection—

1. From a previous case of the disease.

2. From infected articles.

#### CHICKEN-POX.

Incubation period.—Least, thirteen days; average, fourteen days; greatest, nineteen days.

Period of observation of exposed persons.—Nineteen Jays from date of last exposure to infection.

Infective period.—From the appearance of the eruption until this has entirely disappeared.

<sup>\*</sup>In hemorrhagic small-pox there is some evidence that the incubation period is shortened to seven days.

Sources of infection—

- 1. From a previous case of the disease.
- 2. From infected articles.

#### TYPHOID FEVER.

Incubation period.—Least, eight days; average, twelve to four-teen days; greatest, twenty-three days.

Period of observation of exposed persons.—Twenty-three days

from last exposure to infection.

Infective period.—The excreta are infectious throughout the whole course of the disease and for undetermined periods thereafter.

Sources of infection.—Water and food contaminated by the specific bacteria contained in the excretions of an enteric fever patient.

Polluted well waters may remain infective or retain the infection latent for long and unknown periods after the original mode

of infection has ceased to operate.

The food most often implicated in the production of enteric fever is cows' milk which has acquired its infectiveness by the addition to it of water polluted by excreta, or by contact with cans and utensils which have been infected by polluted water, or by contact with unclean hands. Outbreaks of enteric fever have been traced to ice cream, herb beer and other drinks manufactured on premises where enteric fever has existed.

Shell-fish grown in waters receiving sewage have caused enteric fever, and flies have been shown to be carriers of the disease.

The attendants upon enteric fever patients may become infected by taking meals with unwashed hands.

Instances are known where washerwomen have contracted the disease from handling infected clothing or bedding of enteric fever patients. The infection may persist for several weeks in infected clothing and bedding shielded from contact with light and air.

#### TYPHUS FEVER.

Incubation period.—Average, seven days.

Period of observation of exposed persons.—Fourteen days from date of last exposure to infection.

Infective period.—From the commencement of illness until convalesence.

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Sources of infection.—From a previous case of the disease. The virulence of the contagion is rapidly destroyed by fresh air and free ventilation combined with cleanliness, so that the spread of the infection is generally observed only in the overcrowded and unsanitary quarters of the poorest class of the population in industrial towns.

### 14. Vacher's Table.

diseases.	Time from inception to beginning of eruption.	Time from first pre- cursory symptom to beginning of eruption.	Time from beginning of eruption to cessation of pyrexia.	Time from beginning of eruption till patient ceases to be ineffective.
Small-pox	13 days(range, 7 to 21 days.)	2 days (range, a few hours		
Modified Small-pox	13 days(range, 7 to 21 days.)	to 7 days.)  2 days(range, a few hours	14 days	35 days.
Chicken pox	13 days(range, 4 to 17 days.)	to 7 days.) 2 days (range, a few hours	5 days (range, 3 to 7	17 days.
Measles	14 days (range, 7 to 21 days.)	(range, 1 day to 9	6 days	27 days.
German Measles	(range, 10 to 20 days)	days.) I day (range, nil to 3 days.)	7 days	14 days.
	(ronge a few hours	ı day		
Diptheria	5 days(range, I day to 14	2 days(range, a few hours to 4 days.)	14 days	28 days.
Idiopathic Erysipelas.	5 Days(range, 2 to 14 days.)	ı day	14 days	35 days.
Typhus Fever	19 days (rauge, a few hours	7 days(range, 3 to 7 days.)	7 days (range, 7 to	21 days.
		7 days(range. 7 to 12 days.)	21 days (range, i4 to 23 days.)	28 days.
Mumps	I8 days	4 days	7 days	21 days.

### 15. Whitelegge's Table.

	Quarantine to be required after exposure to infection.	EAPLIEST DATE OF RETURN TO SCHOOL AFTER AN ATTACK.
Small-pox		When all scabs have fallen off.
Chicken-pox	18 days	When all scabs have fallen off.
Scarlet Fever	14 days	Six weeks, and then only if no desquamation   or sore throat.
Diphtheria	12 days .	Three weeks, if convalescence is complete, and no bacilli remain.
Measles	τ6 davs	Three weeks, if all desquamation and cough have ceased.
Whooping-Cough	21 days	Six weeks from the commencement of the whooping, if the characteristic spasmodic cough and whooping have ceased. Earlier, if all cough be gone.
Rötheln, or Rubella	16 days	Two to three weeks, according to the nature of the case.
Mumps	24 days	Four weeks, if all swelling has subsided.

r6. Bacteriological Diagnosis. —The State Board of Health supplies facilities for the examination of specimens in cases of suspected diphtheria, tuberculosis, typhoid fever and malaria. The State laboratory is located in Trenton, and the service, rendered free of charge, is prompt and satisfactory. By an order of the postal department, the transportation of diseased tissues through the mails is permitted under certain restrictions, when said tissues are enclosed in specified mailing-cases. These mailing-cases are supplied, without charge, upon request, to physicians, health officers and school officers, and repositories have been established in many parts of the State where the mailing-cases may at all times be obtained. Reports showing the result of the examination will be sent out from the laboratory within twenty-four hours. Reports will be sent by telegraph if a request is sent with the specimen.

In cases where diphtheria is found to exist, specimens should subsequently be sent, at intervals of a few days, for the purpose of learning when the diphtheria bacilli have ceased to exist in the throat, and to guide in the removal of the isolation restrictions.

No specimen will be examined if it is sent through the mails otherwise than in one of the packages furnished by the laboratory.

17. Vaccination.—Local boards of health should prevent the occurrence of small-pox by securing general vaccination and revaccination.

Every parent should cause each child to be vaccinated before one year of age.

School boards should require that all children and teachers who

attend the public schools shall first be vaccinated.

Local boards of health should offer, at least once each year, free vaccination to all who are unable to pay for this service.

In factories, the superintendent should advise or direct all em-

ployes to be vaccinated.

Re-vaccination should be practiced as often as once every five years, and if a case of small-pox appears in the neighborhood, all persons in the vicinity should be re-vaccinated.

Small-pox would forever cease if the preventive methods now well understood—vaccination, isolation and disinfection—were thoroughly enforced.

- Minor Infectious 18. The **Diseases.**—Those infectious diseases which are attended by few deaths cannot be dealt with by isolation as in the case of the more fatal affections, for public sentiment will not sustain sanitary authorities in the enforcement of preventative measures in these diseases; moreover, the usual precautions, which are effective in restricting the spread of scarlet fever, diphtheria, &c., are almost wholly inapplicable in outbreaks of the class of diseases referred to. In this connection, mention may be made of mumps, whooping-cough, malarial fever, influenza, communicable diseases of the eye and parasitic diseases of the skin. Certain other infectious diseases which are not usually included in the notifiable list, but which, nevertheless, are attended with a high fatality, are as follows: tuberculosis in all of its forms, cerebro-spinal meningitis, pneumonia, diarrhoeal diseases of children, dysentery, puerperal fever, erysipelas, rabies, tetanus, anthrax, glanders.
- 19. Notification of Cases of Infectious Diseases. —Section I of the following act requires that physicians shall report certain communicable diseases to the clerk or other designated officer of the local board of health. In addition to the diseases named in this section, local boards of health may, by ordinance, specify such other communicable diseases as they may deem necessary, and require reports of the same. Section 2 provides that the clerk or secretary or other officer of the local board of health shall

transmit, at least once in each week, by mail, to the office of the State Board, Trenton, upon blanks furnished by the State Board, a statement of the number of cases of preventable diseases which have been reported to the local board.

### 20. An Act for the Protection of the Public Health.

(Approved March 22, 1835—Gen. Stat., p. 1677)

1. That every physician shall, within twelve hours after his first professional attendance upon any person who is suffering from cholera, yellow fever, typhus fever, leprosy, plague, trichinosis, small-pox, varioloid, enteric (or typhoid) fever, diphtheria, membranous croup, scarlet fever, or any other contagious, infectious or communicable disease which hereafter may be publicly declared by the State Board of Health to be preventable and especially dangerous to the public health, report such sickness to the clerk of the local board of health having jurisdiction over the territory within which such sickness may be, or if such local board of health shall have designated some other officer thereof to receive such reports, then to such officer, which report shall be in writing, signed by such physician, and shall set forth the name, age and precise location of the person suffering from such disease: and every houseowner or householder who knows that any person living, dwelling or being in any building under his control is affected by any of the contagious, infectious or communicable diseases hereinabove specified or referred to shall, when no physician has professionally attended such sick person, within twelve hours after discovering the same, report the fact in writing to the same person and in the same manner as any physician attending such sick person would be required to do as hereinabove set forth; and on the thirtieth day of June and the thirty-first day of December in each and every year, every physician, houseowner and householder making any report or reports as in this section required, shall be entitled to receive from officer to whom such report or reports shall have been made during the preceding six months, a certificate in writing under the hand of such officer, setting forth the number of names of persons reported to have been affected with any of the diseases hereinabove specifically named or referred to, which certificate when presented by such physician, houseowner or householder to the proper disbursing officer of the city, borough, town or other local municipal government or township within which such affected person may have been, shall entitle such physician, houseowner or householder to receive from such disbursing officer the sum of ten cents for each and every name by such certificate certified to have been reported, unless such notification shall be found to have been erroneous; and any physician, houseowner or householder who shall refuse or neglect to perform the duty hereinabove required of him shall be liable to a penalty of fifty dollars.

2. That the facts contained in every report filed with the clerk or other officer of any local board of health, pursuant to the provisions of the first

section of this act, shall be entered by the officer to whom the same shall be delivered in a book kept exclusively for that purpose, which book shall be subject to the inspection of the local board of health and its proper officers, and to the State Board of Health and its officers only; the officers of the local board of health to whom such report shall be delivered, and whose duty it is to make record of same, as in this section above set forth, shall also, at least once in each week, and daily when required by the state board of health, transmit the facts stated therein by mail to the board of health of the state of New Jersey, at Trenton, and shall further keep the said State Board of Health constantly informed concerning the measures which are employed by the local board of health to prevent the spread of the diseases in such reports mentioned, which facts and information shall be conveyed to the said State Board of Health in writing and upon such blank forms as may be furnished by the said State Board of Health; any officer whose duty it is to make any report to said State Board of Health, as in this section above provided, and who neglects or fails to perform such duty, shall be liable to a penalty of fifty dollars for each and every such neglect or failure of duty.

- 3. That it shall be unlawful for any common carrier to accept for transportation, or to transport or carry, within this state, any person affected with any of the contagious, infectious or communicable diseases named or referred to in the first section of this act, or any infected article or articles of clothing, bedding or other property whatsoever or the body of any person who shall have died of said contagious, infectious or communicable diseases, except the same be inclosed in an hermetically-sealed casket, and except a license for such transport be first obtained in writing from the local board of health of the municipality or township in which the said infected person, infected articles or dead body may be located; and any common carrier knowingly violating any of the provisions of this section shall be liable to a penalty of one hundred dollars.
- 4. That if the board of health of the state of New Jersey shall ascertain any vaccine virus, antitoxin or other animal product sold, or offered for sale, or held for sale or use within this state for prophylactic or remedial purposes, to be dangerous to human health, or so impure or inert as to be inefficacious in rendering immune or less susceptible to disease any person in whom such product may be used, it shall be lawful for the said board of health of the state of New Jersey to prohibit the further sale or use within this state of any vaccine virus, antitoxin or other animal product, as aforesaid, manufactured or produced by the party who shall have manufactured or produced such dangerous, inert, impure or inefficacious product; any person who shall, after such prohibition, and with knowledge thereof, sell, or offer for sale, or use, or offer for use within this state any such prohibited product shall be liable to a penalty of one hundred dollars.
- 5. Any penalty incurred under any of the provisions of this act may be recovered, with costs, in a summary proceeding, either in the name of the board of health of the state of New Jersey or in the name of the local board of health of the township, city, borough, town or other local muni-

cipal government within whose jurisdiction the penalty may have been incurred; it shall be the duty of any health inspector, registrar of vital statisties or member of any local board of hearth, who shall know or be informed of any violation of this act, whereby any penalty may have been incurred, to make, and any other person having such knowledge may make, under oath or affirmation, a complaint against the person incurring such penalty, setting forth the facts of such violation, which complaint shall be filed with the clerk of the district court or any justice of the peace of the county within which the offense may have been committed, or with any police justice or recorder of the township, city or municipality within which any local board bringing suit shall have jurisdiction, and the clerk of the district court, the justice of the peace, police justice or recorder with whom any complaint shall be filed as aforesaid. setting forth facts sufficient to show that any penalty prescribed by this act has been incurred, is hereby authorized and required to issue process. either in the nature of a summons or warrant, which process when in the nature of a warrant, shall be returnable forthwith, and, when in the nature of a summons, shall be returnable in not less than five nor more than fifteen days; on the return of such process, or at any time to which the trial shall have been adjourned, the said court, justice of the peace, police justice or recorder shall proceed to hear the testimony and to determine and give judgment in the matter without the filing of any pleadings, and, if judgment shall be given in favor of the plaintiff, execution shall be forthwith issued against the goods and chattels of the defendant for the amount of the penalty, with costs; the officers to serve and execute any process or execution issued as aforesaid shall be the constables of the county, which service and execution, in the case of any execution issued out of a district court, shall be made in the same manner and under the same liabilities as other executions issued out of said court are served and executed; the officers to serve and execute any process or execution issued by a justice of the peace, police justice or recorder shall be the constables of the county, which service and execution shall be made in the same manner and under the same liabilities as prescribed in cases of the service and execution of process and executions by the act entitled "An act constituting courts for the trial of small causes," and the supplements thereto; all moneys recovered in any such proceeding shall be paid to the plaintiff therein and applied by such plaintiff to any purpose for which it may be legally authorized to expend money.

- 6. This act shall take effect immediately.
- 21. Ordinances.—From time to time suggestions have been made in circulars, now out of print, and in the annual reports of the State Board of Health, indicating some of the approved forms of sanitary ordinances for the use of townships and small municipalities. These suggestions have sometimes appeared under the

title "Model Ordinances." Following is a revised copy of a sanitary code recently adopted by several township health boards:

The Local Board of Health of the township of \_\_\_\_\_\_\_, in the county of \_\_\_\_\_\_\_, by virtue of the provisions of the act of the Legislature of New Jersey, entitled "An act to establish in-this State Boards of Health and a Ruzsau of Vital Statistics, and to define their respective powers and duties," approved March 31, 1887, and of other acts, ordains:

Section 1. That whatever is dangerous to human health, or whatever renders the ground, the water, the air or food a hazard or an injury to human health, is hereby declared to be a nuisance, and any person or persons creating or maintaining or aiding in the creation or maintenance, of any such nuisance, shall be liable to a penalty of twenty-five dollars.

Section 2. That any decaying animal or vegetable substance or substances, or other offensive matter in the form of rubbish, garbage or offal, in or upon any lot, street or highway, or in or upon any public or private place, is hereby declared to be a nuisance, and any person or persons who shall maintain any such nuisance, or who shall aid therein, shall be l'able to a penalty of twenty-five dollars.

Section 3. That the pollution of any stream, well, spring or reservoir of water used for drinking purposes is hereby prohibited, and any person or persons who shall cause such pollution, or who shall aid therein, shall be liable to a penalty of one hundred dollars.

Section 4. That the placing of house sewage, waste fluids or fouled liquids on the surface of the ground in such a manner as to become the source from which offensive odors shall emanate, or in such manner as to pollute ground, air or water, or in such manner as to endanger the purity of the water of any well, stream, pond or lake, or the discharge of such sewage or fluids into any street or highway, is hereby declared to be a nuisance, and any person or persons who shall cause or maintain, or who shall aid in causing or maintaining, any such nuisance, shall be liable to a penalty of twenty-five dollars.

Section 5. That the storage of animal refuse or decaying or putrescible matter in liquid or solid form in any vault, cesspool or other receptacle in such manner that the same shall, by reason of offensive odors emanating therefrom, become a source of discomfort to persons living or passing in the vicinity thereof, is hereby declared to be a nuisance, and any person or persons causing or maintaining any such nuisance, or aiding therein, shall be liable to a penalty of twenty-five dollars.

Section 6. That the discharge or deposit of any foul or offensive liquids or solids into or upon any lots or lands without first obtaining a permit therefor from the local board of health, or the keeping or forming of sunken places or excavations upon any lot or land and the accumulation thereon of foul water or offensive animal or vegetable matter, is hereby declared to be a nuisance; and any person or persons who shall cause or maintain any such nuisance, or who shall aid in causing or maintaining the same, shall be liable to a penalty of twenty-five dollars.

Section 7. That the keeping of any tenement house or other house or

building, or any part thereof, in a state of uncleanliness, or the crowding of persons in any tenement or other house or building in such manner as to endanger the health of the persons dwelling therein, is hereby declared to be a nuisance; and any person or persons through whose act or neglect such state of uncleanliness shall be caused, and any person or persons by whom such crowding shall be caused, shall be liable to a penalty of twenty-five dollars.

Section 8. That the keeping of any jail, prison, almshouse or other public building, or any part thereof, in a state of uncleanliness, or the crowding of prisoners or inmates therein in such manner as to endanger the health of such prisoners or inmates, is hereby declared to be a public nuisance; and any person or persons, officer or officers, through whose act or neglect such state of uncleanliness shall be caused, and any person or persons, officer or officers by whom such crowding shall be caused, shall be liable to a penalty of twenty-five dollars, provided, however, that this section shall not apply to any person or officer having the care of prisoners or in any jail, prison, almshouse or other public building, where such building is of insufficient dimensions for the proper care of such prisoners or inmates, and such person or officer has no authority or power under the law to limit the number of prisoners or inmates that shall be committed to such building or to enlarge such building.

Section 9. That the keeping of any dwelling house or building in which there is or has been any dangerous or communicable disease without cleansing and disinfection, is hereby prohibited. Any person or persons offending against this section shall be liable to a penalty of twenty-five dollars.

Section 10. That the keeping of any pen or enclosure for fowls, goats, swine or other animals, or of any slaughter house, tannery or factory, in such manner that offensive odors shall emanate therefrom to the detriment or discomfort of persons living or passing in the vicinity thereof or to common discomfort, is hereby declared to be a nuisance; and any person or persons who shall keep any such pen, enclosure, slaughter house, tannery or factory in such manner as aforesaid, shall be liable to a penalty of twenty-five dollars.

Section 11. That the sale of any meat or vegetable food or drink that is unwholesome or unfit for food is hereby prohibited; any person or persons making any such sale as aforesaid shall be liable to a penalty of one hundred dollars.

Section 12. That any physician, midwife, nurse, clergyman, magistrate or other person who shall officiate at any death, birth or marriage, and who shall neglect to make return thereof to the proper officer, according to law, shall for each and every failure to make such return or report be liable to a penalty of fifty dollars.

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Section 14. Whenever this board shall have satisfactory evidence that any well, the water of which is used for domestic purposes, has become polluted and rendered unsafe for potable use, notice to discontinue the use of said polluted water shall be sent to the owner or party in charge of said well, and, at the discretion of this board, the owner or the party in charge of said well may be ordered in writing, to close, fill up or withdraw from the ground the said well. If the said order is not complied with within the time therein specified, this section shall be deemed violated and this board may proceed to cause the said well to be closed, filled up or withdrawn from the ground. Every well which is used for domestic purpose shall be at least forty (40) feet distant from every privy vault, cesspool, manure vault and horse or cow stable. Any person or persons offending against any of the provisions of this section shall forfeit and pay a penalty of fifty dollars.

Section 15. No person shall sell or deliver or have in possession for sale any milk which has been watered or adulterated, or which contains any unhealthful ingredient, constituent or substance, or which has been transported or stored in any unclean manner, or which is produced from cows which are kept or stabled under unhealthful conditions, or which are diseased. Any person or persons or corporation who shall violate any of the provisions of this section shall forfeit and pay a penalty of fifty dollars.

Section 16. No principal, teacher, or superintendent of any school and no parent or guardian of any child attending any school, shall permit any child sick with any communicable disease, or any child residing in any house in which such disease shall exist, to attend any school until this board shall have given its permit therefor. Any person or persons offending against any of the provisions of this section shall forfeit and pay a fine of twenty dollars.

Section 17. Whenever it shall be deemed necessary by this board to establish the true character of any disease which they may believe to be communicable, a medical examination of the person or persons affected by such disease may be ordered, and such examination shall be permitted by all attendants and persons. Any person or persons offending against any of the provisions of this section shall forfeit and pay a penalty of fifty dollars.

 such diseases to other persons. Any person or persons offending against any of the provisions of this section, or obstructing any duly-authorized agent of this board in carrying out the instructions of the board shall forfeit and pay a penalty of fifty dollars.

Section 19. Whenever quarantine or isolation and separation of persons or property is ordered by this board, notice of said order shall be given to the persons affected thereby. Said notice shall be in writing and it may be served personally, left with some person at the infected house, or it may be posted upon the building or premises occupied by the infected persons or property. The requirements of said quarantine notices shall be obeyed by all persons, and no such notice or any other sign indicating the presence of communicable disease upon any premises shall be removed except by consent of this board. Any person or persons offending against any of the provisions of this section shall forfeit and pay a penalty of one hundred dollars.

Section 20. No person or article liable to propagate a communicable disease shall be brought within or removed from the limits of the without the written permit and under the direction of the board of health thereof; and whenever it shall come to the knowledge of any person that such person or article has been brought within such limits, he shall immediately give notice thereof to the said board. No person shall, within this ----, without a permit from the board of health thereof, carry or remove from one building to any other, any person sick of any communicable disease, nor shall any person by any exposure of any individual sick of any communicable disease, or of the body of such person, or by any negligent act connected therewith, or in respect to the care or custody thereof, or by a needless exposure of himself, cause or contribute to or promote the spread of communicable disease. Any owner, lessee or any tenant of any dwelling in which there shall occur a case of communicable disease, shall immediately notify the board of health of the same, and until instructions are received from the said board, shall not permit any clothing or other property that may have been exposed to infection to be removed from the house. Nor shall any occupant of such a house change bis residence elsewhere without the consent of the said board during the prevalence of any public danger from said disease. Any person or persons offending against any of the provisions of this section shall forfeit and pay a penalty of fifty dollars.

# **REPORT**

OF THE

# BUREAU OF VITAL STATISTICS

OF THE

STATE OF NEW JERSEY

FOR THE

Year Ending December 31, 1903.

(317)

#### INTRODUCTION.

A few minor additions have been made to the tables of deaths for the year ending December 31, 1903, to render them more convenient for the special use of those who most frequently consult them, but there has been no alteration in the classification nor in the grouping of facts which are presented. The certificates of deaths are now filed alphabetically for the entire State, and at the end of the year the certificates are bound into books of five hundred each, thus forming an index-catalogue of the decedents for each year.

#### Certificates of Death.

Section 3 of the act approved February 15, 1888, provides that certificates of death shall be made by the attending physsician if practicable, but, when necessary, any physician may, after having viewed and examined the dead body, and being satisfied that the death was not due to unlawful means, furnish the certificate.

The section reads as follows:

"That when any person shall die within this state, it shall be the duty of the physician who shall have attended such person during his or her last sickness to furnish to the undertaker, or any member of the family applying therefor, a certificate of such death, which certificate shall set forth particularly, to the best of such physician's knowledge, the name, age, sex, color, nativity, occupation, last place of residence, the township, city or municipality and the county within which the death occurred and the cause of death; if no physician shall have attended such deceased person during his or her last sickness, or if the physician who shall have attended such deceased person shall be absent or sick, so that no certificate of death can be obtained from him in time for burial, then and in either of such cases it shall be lawful for any physician to whom application may be made, after having viewed and examined the dead body, and being satisfied that the deceased person did not come to his or her death by the contrivance, aiding, procuring or other misconduct of any person or persons, to furnish such certificate as aforesaid, in case the attending physician, or the physician applied to as aforesaid, after having consented to act upon such application and viewed and examined the dead body, shall refuse to furnish such certificate as aforesaid, except upon the ground aforesaid, he shall be liable to a penalty of twenty dollars; and if any physician shall refuse to furnish such certificate as aforesaid, upon the ground aforesaid, the same proceedings shall be had as are provided by law for the investigation of the cause of violent, sudden or casual deaths, and the physician or officer who shall conduct such investigation shall furnish such certificate of death as aforesaid."

Following is the form of the certificate of death:

# State of New Jersey---Bureau of Vital Statistics.

CERTIFICATE AND RECORD OF DEATH.

Full Name of Deceased
Years.   Months.   Days.   Hours.   Age
Single, Married, Widowed or Divorced. Birthplace
Last Place of Residence
Place of Death  [If in a city, give name, street and number; if in township, give name and county; if in an institution, so state.]
Father's Name
Mother's Name
I hereby certify that I attended the deceased during the last illness, and
thatdied on theday of190 , and that the cause of
death was
Length of sickness
Name of Undertaker  [Medical Attendant.]
Residence of Undertaker[P. O. Address.]
Place of Burial

### 320 REPORT OF THE BOARD OF HEALTH.

It is advisable that every local board of health should keep a record of the deaths which occur in the sanitary district in which the board is located, together with the cause of death in each case and the location of the dwellings in which the deaths occur. Record books for this purpose should be furnished by the local municipal authorities. The following form of ruling and printing has been found to be convenient:\*

#### Record of Deaths Occurring in . . . . . . in the Year . . . . . . .

No.	 Day	NAME OF DECEDENT	Color	SE M.	Yr.		Resident	Transient	CAUSE OF DEATH	PLACE OF BURIAL	MEDICAL, ATTENDANT	UNDER- TAKER
		·										

<sup>\*</sup>If blanks of this description are used they should be provided by order of the local authorities. The state board of health is not authorized by law to furnish blanks for this purpose.

Table 43.—Births, Marriages and Deaths, by Counties, Cities, Boroughs, and Townships, and Totals for the State, for the Year Ending

December 31, 1903, and Showing Increase and

Decrease from Previous Year.

#### ATLANTIC COUNTY.

		BIRTHS.		м	ARRIAG	cs.	DEATHS.		
NAME OF PLACE.	1903.	Varis from		1903.	Varia from		1903.	Variation from 1902.	
	Number in 1	Increase.	<b>Decrease.</b>	Number in	Increase.	Decrease.	Number in	Increase.	Decrease.
Absecon Atlantic City Buena Vista Brigantine Egg Harbor City Egg Harbor Galloway Hamilton Hammonton Linwood Mullica Pleasantville Somers Point South Atlantic City Weymouth	9 538 49 0 522 40 39 89 0 222 65 10	5 3 12 53 7 19	7 10	5 359 17 0 20 7 12 9 41 23 19 1 0 4	9 4 6 24	22 5	6 510 21 3 31 47 34 29 70 17 26 4 2	3 10 5 6 60	956888
	976	105	75	*11 510	47	43	815	95	39

<sup>\*</sup>Marriages certificates received from County Clerks in which the places where the marriages were performed are not stated.

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#### BERGEN COUNTY.

Lodi Borough			BIRTHS.		м	ARRIAGI	ES.	DEATHS.		
September   Sept	NAME OF PLACE.	1903.			Variation from 1902.			1903.		
Allendale		Number in	Increase.	Decrease.	Number in	Increase.	<b>Decrease.</b>	Number in	Іпстевве.	Decrease.
Wallington     3     1     0     2     1     1       Washington     8     12     1     3     10       Westwood     16     8     5     3     14     3       Woodcliffe     5     7     0     0     0     2	Bergenfield Bogots. Sarlstadt. Cliffside Park Fresskill Delford Dumont East Rutherford. Edgewater Englewood City Englewood Cliffs Enna Fairview Franklin Garfield Glen Rock Hackensack City Harrington Hasbrouck Heights Hillsdale Hohokus Leonia Little Ferry. Lodi Borough Lodi Township Maywood Midland Midland Park Montvale North Arlington Oakland Old Tappan Orvil. Ooverpeek Palisade Park Park Ridge Ridgefield Borough Ridgefield Township Ridgefield Township Ridgewood Riverside Rutherford Saddle River Borough Saddle River Township Teanafty	. 70 28 131 155 56 31 114 122 456 61115 2107 477 173 133 475 224 48 540 218 121 48 540 218 121 48 540 218 31 14 14 15 15 16 115 17 17 17 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	2 5 5 5 7 7 3 2 2 7 6 2 4 4 3 1 1 2 2 1 1 1 2 2 2 1 1 1 1 0 0 2 1 1 1 1	3 3 3 3 3 3 3 3 0 1	33 221 41 77 3122 105 55 388 1103 111 46 614 55 15 108 117 77 44 117 73 128 27 75 222 323 70 102 102 103 104 105 105 105 105 105 105 105 105 105 105	100 33 440 100 112 77 44 440 441 1100 222 255	11 00 66 55 00 31 11 55 12 00 00 01 11	10 30 30 400 11 12 12 12 12 12 12 12 12 12 12 12 12	3 6 0 15 2 2 0 0 5 5 2 11 11 0 4 2 3 1 10 9	£ 8
	Wallington	3 8	i i		0 1 5	3 0	3	14	3 8	

<sup>\*</sup>Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.

### BURLINGTON COUNTY.

		BIRTH8	.	, м	ARRIAGI	ES.	DEATHS.		
NAME OF PLACE.	1903.	Varia from	ation. 1902.	1903.	Variation from 1902.		1903.	Variation from 1902.	
	Number in	Increase.	Decrease.	Number in	Increase.	Decrease.	Number in	Increase.	Decrease.
Sass River Severly City Severly Township Sordentown City Sordentown Township Surlington City Surlington Township Surlington Township Chester Chesterfield Cinnaminson Delran Sestampton Sevesham Fieldsboro Florence Lumberton Mansfield Mount Laurel New Hanover Northampton Palmyrs Pemberton Borough Remberton Borough Remberton Borough Rewister Silverside Riverside Riverside Riverside Riverside Riverside Southampton Springfield Fabernacle Washlington Westhampton Westhampton Westhampton Westhampton Westhampton Washlington Westhampton	9 288 19 19 19 11 11 10 15 17 20 18 48 48 48 19 105 53 105 12 83 83 86 64 45 66	9 5 	8 27 27 5 5 1 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	8 177 144 99 44 99 66 241 47 15 -	20 9 0 0 0 22 13 4 4	8 2 9 0 100 10 16 44 84 55	8 444 27777772 1666 66 66 66 111 69 199 199 199 199 199	6 21 3 6 1 1 1 1 1 5 5 5 5 5 5 5 5 7 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

#### CAMDEN COUNTY.

_		BIRTHS.	.	M	ARRIAG	ES.	DEATHS.		
NAME OF PLACE.	1903.	Varis from	tion. 1902.	1903.	Varis from		1903.	Variation from 1902.	
Camden City	Number in	Increase.	<b>Decrease.</b>	Number in	Increase.	Decrease.	Number in	Increase.	Decrease.
Camden City Centre Chesilhurst Clementon Collingswood Delaware Gloucester City Gloucester Township Haddon Haddonfield Merchantville Pensauken Voorhees Waterford Winslow Wood Lynne Borough.	1,447 36 9 29 14 143 44 44 46 20 28 28 28 12 50 35	2122 1 6 299 2 2 2 2 2 7 7 7 13 0 4 4 9 9	30	1,771 6 2 13 29 0 88 19 16 29 28 9 4 15 0	119 1 13 15 27 5 7 4	17 1 17 14 5 3	1,281 49 1 15 30 22 129 86 25 39 31 38 14 35 38	8 3 2 0 4 6 1 2 17	20
	1,978	308	31	*6 2,037	197	37	1,836	61	11:

<sup>\*</sup>Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.

#### CAPE MAY COUNTY.

		BIRTHS.		M	ARRIAG	E8.	DEATHS.					
NAME OF PLACE.	1903.	Varia from	ation. 1902.	1903.	Varia from		1903.	Varia from 1				
	Number in	Increase.	<b>Decrease.</b>	Number in	Increase.	<b>Decrease.</b>	Number in	Increase.	<b>Decrease.</b>			
Anglesea Borough Avalon Cape May City Cape May Point Dennis Holly Beach Borough Lower Middle Ocean City Sea Iale City Upper West Cape May Wildwood Woodbine	20 34 0 23 15 22 32 45 7 7 13 6 50	1 0 	00 5 22 65 	2 0 31 0 5 6 6 12 19 23 0 14 1 1	0 11 0 5 4	0 0 14 6 6	0 0 37 2 12 11 11 19 34 25 0 13 8 8	3	0 0 10 0 222 12			
	256	70	96	116	32	30	177	28	59			

<sup>\*</sup>Marriage certificate received from County Clerk in which the place where the marriage was performed is not stated.

### CUMBERLAND COUNTY.

					-				
		BIRTHS.	.	М	ARRIAG	ES.	DEATHS.		
NAME OF PLACE.	1903.	Varis from	tion. 1902.	1903.	Varia from		1903.	Varia from 1	
	Number in 1	Increase.	<b>Decrease.</b>	Number in 1	Increase.	<b>Decrease.</b>	Number in	Increase.	Decrease.
Bridgeton Commercial Deerfield Downe Fairfield Greenwich Hopewell Landis Lawrence Maurice River Millville City Stow Creek Vineland	210 45 26 30 18 35 28 71 20 34 294 10	17 19 9 5	3  	114 13 14 8 6 7 7 11 9 13 144 2 96	[ <i>.</i>	12 3 1 4 2 1	202 32 28 17 19 20 42 68 17 15 152	7 6 14 3 2 0 1	0 7 4 7 2 3
	926	71	83	444	46	30	706	₹44	46

#### ESSEX COUNTY.

		BIRTHS.	.	м	ARRIAG	ES.	DEATHS.		
NAME OF PLACE.	1903.	Varis from	tion. 1902.	1903.	Varia from		1903.	Variation from 1902.	
	Number in 1903.	Increase.	<b>Decrease.</b>	Number in 1903.	Increase.	<b>Decrease.</b>	Number in	Increase.	<b>Decrease.</b>
Belleville Bloomfield City Caldwell Borough. Caldwell Township. Caldwell Township. Clinton. East Orange City. Essex Fells Glen Ridge Irvington Livingston. Millburn. Montolair City Newark City. North Caldwell Borough	106 182 21 15 4 391  19 108 21 61 337 6,092	16 8 3 39 10 6	2 7 4	45 65 10 6 2 168 1 5 54 4 5 68 3,093	0	12 5 0	101 119 20 13 233 25 82 25 82 20 38 271 4,901	9	20 3 0 3 18
North Caldwell Borough Nutley Borough Orange City South Orange Borough South Orange Township Vallsburg West Orange City	65 691 69 29 66 22 123	16 55 0 1 13 7	18 0	24 210 43 14 11 4 24	5 37 12 5 1 7	5	40 525 58 18 36 34 79	9 25 1	6 2 9

#### GLOUCESTER COUNTY.

		BIRTHS.		м	ARRIAG	E8.	DEATHS.		
NAME OF PLACE.	1903.	Varis from	tion. 1902.	1903.	Varia from	tion 1902.	1903.	Varis from	
Clayton	Number in 1903	Increase.	Decrease.	Number in	Increase.	<b>Decrease.</b>	Number in 1903	Increase.	Decrease.
Clayton Deptford East Greenwich Elk Frankim Glassboro Greenwich Harrison Logan Mantua Monroe South Harrison Swedesboro Washington Wenonah West Deptford Woodbury Woolwich	54 26 25 12 50 57 47 16 30 25 5 34 15 50 25	7 1 9 3 13 13  9  2 5 18 6 6	5 2 17 	28 8 5 9 11 25 9 11 4 17 20 4 15 2 14 38 1	22 1 4 4	10 1 2 2 2 2 2 1 2 2 3 5 4	24 19 27 23 29 24 16 17 26 44 13 9 28 64 9	2 3 3 13 5 8	15
	522	76	38	*1 213	18	44	383	41	7

<sup>\*</sup>Marriage certificate received from County Clerk in which the place where the marriage was performed is not stated.

#### HUDSON COUNTY.

		BIRTHS		м	ARRIAG	E8.	;	DEATHS.	
NAME OF PLACE.	1903.	Varis from	ation. 1902.	1903.	Varia from		1903.	Varis from	
	Number in	Increase.	Decrease.	Number in 1903	Increase.	<b>D</b> есте <b>вяе.</b>	Number in	Increase.	<b>Decrease.</b>
Bayonne East Newark Guttenburg Harrison Hoboken Jersey City Kearny North Bergen Secaucus Town of Union Weehawken West Hoboken West New York	1,228 28 121 252 1,833 3,731 237 231 51 405 118 612 152	7	49	341 18 17 95 805 2,423 78 49 1 249 28 305 38	218	9	679 44 62 210 1,140 4,130 213 129 205 266 77 312 65	5	120 121 124
	8,999	696	61	*4 4,451	349	20	7,532	323	169

<sup>\*</sup>Marriage certificates received from County Clerk in which the places where the marriage<sup>8</sup> were performed are not stated.

#### HUNTERDON COUNTY.

NAME OF PLACE.	r in 1903.	Varia from		903.	Varia from		3.	Varia	
	r ii		1 1	Ħ		1002.	1903.	irom .	1902.
٠.	Number in	Increase	<b>Decrease.</b>	Number in 1903	Increase.	<b>Decrease.</b>	Number in	Increase.	Decrease.
llexandria sethlehem. liinton Borough. liinton Township. leakare. Last Amwell. ranklin renchtown. ligh Bridge lolland unction tingwood. ambertville ebanon taritan teadington tockton lewksbury Jnion. Vest Amwell.	16 21 1 21 22 22 16 7 11 19 10 23 297 24 65 28 7 42 14	1   17   17   18   18   18   12   12   12   12   12	30 30 50 1	59 99 122 133 4 14 111 19 88 57 40 18 27 11 11 18	22	15 2 2 3 5 5 1 15 2 2 2 1	19 32 10 21 22 23 20 17 26 9 19 60 25 65 39 31 11 11	168 33 2 2 2 7 7 7 7 7 7 1 4 1 1 1 1 1 1 1 1 1 1 1 1	1

#### MERCER COUNTY.

		BIRTHS.		м	ARRIAG	ES.	1	DEATHS.	
NAME OF PLACE.	1903.		tion. 1902.	1903.	Varis from		1903.	Varia from	
	Number in	Increase.	Decrease.	Number in	Increase.	<b>Decrease.</b>	Number in	Increase.	Decrease.
East Windsor Ewing Hamilton Hightstown Hopewell Borough Hopewell Township Lawrence. Pennington Borough Princeton Borough Princeton Township Trenton Washington. West Windsor.	15  16  34  10  28  10  90  74  11  923  74	8 4 4 11 7 3	5 11 7 6	4 8 10 18 17 17 6 6 23 3 780 3	18 11 11 7 3 127	3 3	13 19 37 27 11 22 19 14 66 11 1,405	26 1 2 1 2 4	5 7
·	1,151	39	30	*5 8 <b>9</b> 0		24	1,662	42	14

<sup>\*</sup>Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.

## 328 REPCRT OF THE BOARD OF HEALTH.

#### MIDDLESEX COUNTY.

		BIRTHS.	.	м	ARRIAG	ES.	:	DEATHS.	•
NAME OF PLACE.	1903.	Varis from	tion. 1902.	1903.	Varia from	tion 1902.	1903.	Varia from	
•	Number in	Increase.	<b>Decrease.</b>	Number in	Increase.	<b>Decrease.</b>	Number in	Increase.	Decrease.
Cranbury Ounellen East Brunswick Helmetta samesburg fadison fetuchen dilltown fource New Brunswick Perth Amboy Piscataway Raritan Sayreville Outh Amboy Township South Brunswick South Brunswick South Brunswick South Brunswick South Brunswick South Brunswick South River Woodbridge	19 32 11 12 10 34 444 42 15 116 103 0 34 89 133	25 1 18 15 106 3 1 4	9 10 10 36	13 22 10 26 5 22 9 1 198 319 15 8 26 36 0	37 7	3 3 15 18 2 21	19 28 22 1 1 30 20 15 397 256 54 45 46 110 0 31 29		200
	1.538	184	109	805	113	70	1,243	71	98

#### MONMOUTH COUNTY.

· · · · · · · · · · · · · · · · · · ·									
		BIRTHS.		м	ARRIAG	ES.	1	DEATHS.	
NAME OF PLACE.	1903.	Varis from	tion. 1902.	1903.	Varia from		1903.	Varia from	
	Number in 1903.	Increase.	Decrease.	Number in 1903.	Increase.	<b>Dестевяе.</b>	Number in 1903.	Increase.	Decrease.
llenhurst llenhurst llentown sbury Park tlantic tlantic Highlands won selmar tradley Beach Borough beal satontown lighishtown armingdale reehold lighlands Holmdel Howell Harawan Borough Hatawan Township Hiddletown Hillstone Heptune City Borough Horth Spring Lake Hores Hore Hore Hore Hore Hore Hore Hore Hore	1 8 86 86 86 13 15 15 15 12 22 11 11 12 25 25 25 25 25 25 25 25 25 25 25 25 25	3 4 2 4 2 6	3 5 13 1 2 2 4 4 	4 4 3 3 5 5 5 4 4 1 4 1 4 1 4 1 1 1 1 1 1 1 1 1	4 4 1 17 2 19 6 8 35	3 7 22 29 3 64 4 118	6 77 533 15 18 11 11 13 34 44 186 18 189 229 222 28 28 189 7 7 0 72 1 70 72 29	22 35 55 11 66 44 155 8	
	1,088	116	64	*4 605		105	1,174	. 97	11

<sup>\*</sup>Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.

		BIRTHS.	.	м	ARRIAG	ES.	1	EATHS.	
NAME OF PLACE.	1903.	Varis from	tion. 1902.	1903.	Varia from		1903.	Varia from	
	Number in 1903	Increase	Decrease.	Number in 1903.	Increase.	Бестевяе.	Number in 1903.	Increase.	<b>Decrease.</b>
Boonton City Boonton Township Butler Chatham Borough Chatham Township Chester Dover City Florham Bark Borough Hanover Jefferson Madison Mendham Montville Morristown City Mount Arlington Mount Olive Netcong Passaic Pequannock Randolph Rockaway Borough Rockaway Township Rockaway Washington Wharton Borough	53 42 27 12 134 4 4 45 35 17 140 40 33 20 17 318 69 50 23 23	21 188 2 2 3 1 6 	3 6 5 2 2 3 8 8	39 1 133 132 2 3 69 11 28 7 7 7 7 7 7 11 17 17 17 28 5	3 1 2 2 2 4	2   7   14   6   10   10   10   10   10   10   10	46 46 40 23 50 90 90 154 125 129 132 219 14 16 19 20 14 31 22 24 44 46 47 48 48 48 48 48 48 48 48 48 48	13 25 4 4 9 14 288	233 77 19 60 277 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
2000	948	,175	46	371			1,127	84	133

#### OCEAN COUNTY.

		BIRTHS.	.	м	ARRIAG	ES.	:	DEATHS.	
NAME OF PLACE.	1903.	Varis from	ation. 1902.	1903.	Varis from		1503.	Varis from	
	Number in	Increase.	<b>Decrease.</b>	Number in 1903.	Increase.	Decrease.	Number in 1903	Increase.	<b>Decrease.</b>
Bay Head Beach Haven Berkeley Brick Dover Eagleswood Island Heights Jackson Lacey Lakewood Lavalette Little Egg Harbor Long Beach Manchester Ocean Plumstead Point Pleasant Beach Sea Side Park Borough Stafford Tuckerton Union	31 0 99 38 1 1 16 51 71 70 5 0 9 23 4 11	1 20 7 6 25	2 3 2 16  22 16  4 6 10	20 11 19 23 55 55 44 00 04 37 78 182 33	14	1 1 3	0 6 7 17 222 4 1 14 122 57 3 3 16 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	2 4 2 7 1	111 6 9 100
	271	65	67	*1 152	30	24	202	18	

<sup>\*</sup>Marriage certificate received from County Clerk in which the place where the marriage was performed is not stated.

### PASSAIC COUNTY.

Manchester         46         10         10         3         30         2           North Haledon         1         7         3         2         5         2           Passaic City         1,215         56         772         48         650         87           Paterson         2,093         373         1,172         195         1,730         4           Pompton         15         18         25         3         34         1           Pompton Lake Borough         16         6         2         5         14         4           Prospect Park Borough         12         5         2         17            Totowa         4         3         0         4            Wayne         24         2         11         1         22         9			BIRTHS.	•	. ж	ARRIAGI	ES.	1	DEATHS.	
State	NAME OF PLACE.	.903.			1903.			1903.		
Hawtborne     35     18     5     1     8     1       Little Falls     55     2     9     5     37     1       Manchester     46     10     10     3     30     1       North Haledon     1     7     3     2     5     2       Passaic City     1,215     56     772     48     650     87       Paterson     2,093     373     1,172     195     1,730     4       Pompton     15     18     25     3     34     1       Pompton Lake Borough     16     6     2     5     14     4       Prospect Park Borough     12     5     2     17     17       Totowa     4     3     0     4     4       Wavne     24     2     111     1     22     9		i.	Increase.	<b>Decrease.</b>	Number in	Increase.	<b>Decrease.</b>	.E.	Increase.	Decrease.
	Hawthorne Little Falls Manchester North Haledon Passaic City Paterson Pompton Pompton Lake Borough Prospect Park Borough Totowa Wayne	55 46; 1,215 2,093; 15 16 12 4	373 6 5 3	2 10 7 56	5 9 10 3 772 1,172 25 2 2 0 11	1 2 48 195	5 3	8 37 30 5 650 1,730 14 17 4 22	2 87 1 4	43

#### SALEM COUNTY.

Alloway			BIRTHS.		м	ARRIAG	ES.	1	DEATHS.	
H	NAME OF PLACE.	1903.			1903.			1903.		
Elmer Borough 29 9 15 4 23 10 Elsinboro. 4 0 0 11 4 Lower Alloways Creek 21 19 6 3 19 3 Lower Penns Neck. 19 3 9 2 14 Mannington. 22 2 3 3 2 34 9 Oldmans. 25 3 6 3 22 7 Penns Grove Borough 34 9 19 5 20 Penns Grove Borough 34 9 19 5 20 Pittsgrove. 26 15 29 5 Pittsgrove. 46 20 5 1 17 29 5 Pittsgrove. 46 20 5 1 17 29 5 Salem City 94 13 66 2 100 7 Upper Penns Neck. 16 3 1 1 2 Upper Penns Neck. 16 3 1 1 2 Upper Pittsgrove 29 18 9 6 19 3 3			Increase.	Decrease.	Number in	Increase.	<b>Decrease.</b>		Increase.	Decrease.
	Elmer Borough Elsinboro. Lower Alloways Creek Lower Penns Neck Mannington. Oldmans Penns Grove Borough Pilesgrove Pittsgrove Quinton Salem City Upper Penns Neck.	29 4 21 19 22 25 34 26 46 30 94	9 3 20 22	9	15 0 9 3 6 19 15 11 66	6	<u>.</u>	23 11 19 14 34 22 20 29 17 14 100	10 4 3 9 7	5 1 6

#### SOMERSET COUNTY.

		BIRTHS.	,	M	ARRIAG	ES.	1	DEATHS.	
NAME OF PLACE.	1903.	Varis from	tion. 1902.	1903.	Varis from		1903.	Varia from 1	
	Number in	Increase.	<b>Decrease.</b>	Number in	Increase.	Decrease.	Number in	Increase.	<b>Decrease.</b>
Bedminster Bernards Bennards Bound Brook Borough Branchburg. Bridgewater Franklin Hillsborough Millstone Montgomery North Plainfield City. North Plainfield Township. Raritan Rocky Hill Somerville Warren	37/ 28 54/ 21/ 25/ 36/ 24/ 0/ 8/ 105/ 7/ 20/ 73/ 15/	122 99 1	4 2 13	9 24 34 22 5 12 6 0 5 46 2 21 1 3 42	22 22 6 6 24 2 1	8	20 39 35 10 29 49 30 0 10 72 12 30 8 67	13 13 5 6	29 3 8 8
	468	50	38	222	60	27	427	31	5

#### SUSSEX COUNTY.

		BIRTHS.		м	IARRIAGI	es.	1	DEATHS.	
NAME OF PLACE.	1903.	Varis from	tion. 1902.	1903.	Varia from		1503.	Varia from	
	Number in 1	Increase.	Decrease.	Number in	Increase.	Decrease.	Number in	Increase.	<b>Decrease.</b>
Andover. Branchville Brooklyn Byoram Byram Frankford Green Hampton Hopatcong Lafayette. Montague Newton Sparta Stillwater. Stussex Borough Vernon Walpack Wantage	97 00 244 310 10 277 11 8 33 73 26 177 4 9 33	111 77 55 11 1	2 4 4 5 7 11 7 7 6 2	53 77 18 37 111 111 100 446 46 111 244	7 6 3 7 1 1 1 1 3	2 2 9 4 15 15	9 11 0 8 15 13 39 34 3 17 17 19 13 14 14 19		11 6 6
	243	37	44	189	50	53	230	49	4:

#### UNION COUNTY.

		BIRTHS.		м	ARRIAG	ES.	1	DEATHS.	
NAME OF PLACE.	1903.	Varis from	tion. 1902.	1903.	Varia from		1903.	Varia from	
	Number in 1903.	Increase.	Decrease.	Number in 1903.	Increase.	<b>Decrease.</b>	Number in 1903	Increase.	Decrease.
Clark Cranford Elizabeth. Fanwood Borough Fanwood Borough Garwood Borough Linden Borough Linden Township Mountainside New Providence Borough. New Providence Twp Plainfield Rahway Roselle Borough. Roselle Park Springfield Summit City Union. Westfield . . .	44 45 1,004 4 1 5 10 11 11 7 366 91 25 38 22 125 127	31 6 6 3 37 8 8	4 16 22	00 19 4622 15 2 2 125 65 68 122 288 288 35	2 6	3 3 3 3 3 3 1	2 36 934 1 20 5 1 5 14 263 123 16 19 13 83 83 7 67	98 3 1 7 2 3 166 4	2 3 3 1
	1,868	266	29	789	60	88	1.638	140	35

#### WARREN COUNTY.

		BIRTHS		м	ARRIAG	ES.		DEATHS.	
NAME OF PLACE.	1903.	Varia from	ation. 1902.	1903.	Varis from		1903.	Varia from	
	Number in	Increase.	<b>Decrease.</b>	Number in 1903	Increase.	Decrease.	Number in	Increase.	<b>Decrease.</b>
Allamuchy Belvidere. Blairstown Franklın Frelinghuysen. Greenwich Hacketistown Hardwick Harmony Hope Independence Knowlton Lopatcong Mansfield Oxford Pahaquarry Phillipsburg Pohatcong Washington Borough Washington Borough	12 17 12 14 2 10 40 8 17 14 16 16 16 2 2 176 64 67	19 5 4 19 19 32 19	10 3 3 5	1 19 16 6 3 6 27 7 0 10 8 5 12 0 28 0 202 26 26 32 5		5 1 3 12 4	9 30 119 22 8 15 46 6 15 15 6 11 11 11 22 47 7 0 161 36 46		3 3 2 2 2 3 3 2 4 3
	576	165	23	*5 419	90	28	535	41	38

<sup>\*</sup>Marriage certificates received from County Clerk in which the places where the marriages were performed are not stated.

## 334 REPORT OF THE BOARD OF HEALTH.

#### SUMMARY.

		BIRTIIS.		M	ARRIAGI	E8.	1	DEATHS.			
NAME OF PLACE.	1903.	Varia from		1903.	Varia from		1903.	Variation from 1902.			
	Number in 1903	Increase.	Decrease.	Number in	Increase.	<b>Decrease.</b>	Number in	Increase.	Decrease.		
Atlantic County Bergen County Bergen County Cameden County Cape May County Cumberland County Essex County Gloucester County Hudson County Hudson County Mercer County Middlesex County Monmouth County Morris County Morris County Salem County Salem County Sussex County Sussex County Sussex County Sussex County C	976 1,620 1,978 256 926 8,423 522 8,999 487 1,151 1,538 1,088 948 243 468 243 1,868	38 170 23 275  107 18 542 45  77 16 122  327 50 13 14 1242 4242	28 30 5	510 500 462 2,037 116 444 3,856 213 4,451 232 890 605 371 152 2,062 187 222 189 789	7 25 178 4 166 435 316	28 34 24 15 70	815 1,181 936 1,836 1,836 1,77 706 6,615 383 7,532 1,682 1,243 1,174 1,127 2,655 364 427 230 1,638 535	111  126 154 19 96  121  37 43	33 22 7		
•	37,242	2,121	65	19,512	1,523	171	31,820	871	27		

#### Y-FIVE YEARS ENDING DECEMBER 31, 1903.

	соммо	N CAUSES	3.							
***	Acute lung diseases.	Brain and nervous diseases of children.	Diseases of heart and circulation.	Renal and cystic diseases.	Adult brain and spinal diseases.	Digestive and intestinal diseases.	Cancer.	Acute rheumatism.	Puerperal.	Violent deaths.
-	2160 1988 2008	1647 1638 1642	972 982 1213	558 516 608	1314 1347 1502	1041 1005 1080	378 425 451	76 64 89	194 234 303	‡
-	2752	1999	1181	765	1521	740	402	52	244	793
	2756	1683	1235	759	1562	923	461	33	198	907
	2174	1598	1324	802	1664	1075	484	62	221	†
-	2566	1791	1503	939	1895	1140	498	36	268	857
	2300	1774	1506	926	1932	1213	546	68	257	997
	2557	1886	1530	873	1966	1242	574	132	263	1051
	2922	1971	1691	1020	2095	1476	612	142	271	1320
	2862	1923	1786	1056	1991	1450	579	117	254	1077
	3804	2032	1945	1149	2308	1521	640	106	250	1235
1	4101	2029	1960	1200	2333	1573	642	76	296	1365
	5187	2242	2183	1444	2457	1625	688	100	282	1427
	3974	2072	2179	1441	2611	1753	723	102	282	1538
	4183	2083	2112	1447	2413	1565	731	91	293	1500
	4596	1925	2268	1523	2626	1589	770	82	294	1469
	4146	2018	2412	1584	2610	1622	811	59	283	1428
	4039	1809	2479	1751	2582	1572	857	69	278	1685
	3414	1642	2286	1694	2700	1484	852	55	264	1451
	4322	1954	2731	1925	2842	1556	946	73	267	1724
	4795	1767	2952	2073	2946	1700	921	73	288	1712
	†	†	2772	2045	†	2221	1042	116	207	2153
	†	†	3066	2021	†	2042	1031	84	225	1770
	72 708	41 1951	3166	2260	+ -47 147	2060	1132	71	279	2010
1	73,706	41,125	49,334	32,469	47,147	36,268	17,196	2,828	6,495	29,469

BITA

RE C

SELT Acute lung diseases . 1,74 1,65 1,41

1,61: 1,55: 1,60: 1,94' 1,96! 2,68!

2,829 3,417 2,809 2,86: 3,09( 2,90,

2,65; 2,40<u>9</u> 2,919

3,47; 2,94]

BITANTS, FOR THE TWENTY-FIVE YEARS ENDING DECEMBER 31, 1903.

RE CO	MMON CA	t'sfs.								
Acute lung diseases .	Brain and nervous diseases of children.  Diseases of heart and circulation.  Renal and cystic diseases.		Renal and cystic discases.	Adult brain and spinal diseases.	Digestive and intes- tinal diseases.	Cancer.	Acute rhenmatism.	Puerperal.	Violent deaths.	
1,180 1,200 1,393	1,066 1,168 1,146	492 521 664	285 296 336	598 667 729	400 491 510	196 232 241	27 28 49	120 136 174		
1,741 1,651 1,416	1,364 1,152 1,110	598 652 746	437 430 558	686 758 806	379 564 609	220 252 288	25 21 28	126 124 131	457 527	
1,618 1,554 1,600	1,287	840 838 882	534 553 557	921 991 984	623 693 673	289 327 326	17 37 72	176 148 172	623	
1,947 1,968 2,680		954 993 1,099	643 657 716	1,084 1,052 1,214	843 840 910	343 331 374	78 63 67	162 181 163	820 687 790	
2,828 3,417 2,802	1,539 1,709 1,556	1,141 1,275 1,315	758 922 940	1,205 3,117 1,439	957 998 1,100	391 434 413	34 62 54	184 187 195	898 908 983	
2,861 3,096 2,904		1,207 1,271 1,427	965 1,002 1,042	1,309 1,415 1,355	930 1,004 1,025	445 457 500		188 193 188	918 939 <b>9</b> 10	
2,651 2,409 2,919	1,312 1,221 1,430	1,503 1,373 1,663	1,190 1,137 1,312	1,353 1,485 1,596	969 947 1,004	534 531 571	40 34 43	185 185 198	1,179 994 1,149	689 795
3,472 2,941	1,355 1,260	1,771 1,764 2,049	1,433 1,489 1,487	1,709 1,694	1,128 1,098 1,481	596 651 683	47 33 61	208 190 180	1,216 1,248 1,048	810 857
····		2,152	1,638		1,521	779	49	220	1,414	
:,248	31,219	29,173	21,418	26,367	21,717	10,397	1,103	4,314	18,865	3,151

table 46.—showing occupations of decedents in new jersey, with for the year ending .

			 										<u> </u>		H		. DAR														
			Bakers.	Bankers and brokers.	Barbers.	Bartenders, brewers and saloonkeepers.	Blacksmiths.	Bostmen.	Bookkeepers.	Brass and iron workers.	Brickmakers.	Butchers.	Buttonmakers.	Chemists.	Cigarmakers.	Clergymen.	Clerks.	Cooks.	Сооретя.	Constables and policemen.											
Consumption.	10 to 15 to 20 to 30 to 40 to 50 to 60 to 70 to 80 to Over	20	1 1		5 1 2	6 122 3	7 5 4 2 1	1 4 5 8 3	_	 8	1	842	i		1 1 4 1 3 2 1 1	 1 1 3	9 55 26 21 6 1	· · · · · · · · · · · · · · · · · · ·		2 2 2 2											
Total	<b>s</b> .		 8	1	13	21	19	24	19	18	1	21	1	0	14	5	118	4	0	7											
Cancer.	Over	20 30 40 50 60 70 80	1		0	1 1 2 2	1  2	::	<u></u>	i i		1 2			 .i  	· · · · · · · · · · · · · · · · · · ·	1 2 2 2														
10001			 2	0	1	1	1 °	,	2		۱۳	3	י	U	1	1	°	U	U	U											
Suicide.	10 to 15 to 20 to 30 to 40 to 50 to 70 to 80 to Over	20 30 40 50 60 70	i		2	3 1 1		2	2	• • • • • • • • • • • • • • • • • • • •					i i		1 1 2	1	1												
Total	8		 3	0	2	5	0	3	2	0	0	0	0	0	2	0	5	1	1	<del>-</del> 0											
Diseases of the nervous system and of the organs of sense.	10 to 15 to 20 to 30 to 40 to 50 to 60 to 70 to 80 to Over	20 30 40 50 60 80	3 1 3	1 1 1 1	i i i i	1 1 2 1 1		1 2 5 4 6 6 1	1 1 4 8 4 6 4	2 4 1 1 1 4	1 1				1 1 3	· · · · · · · · · · · · · · · · · · ·	 5 7 7 6 11 3	· · · · · · · · · · · · · · · · · · ·		2 2 1											
Total	s	. <b></b>	 7	3	4	5	16	25	29	13	1	13	0	0	5	15	40	8	0	5											

SOME OF THE PRINCIPAL CAUSES OF DEATH, AND AGES AT DEATH, DECEMBER, 31ST, 1903.

2   2   1   2   2   1   1   2   1   3   2   2   1   1   2   1   3   1   6   2   2   2   1   3   1   3   7   3   4   1   1   1   2   2   1   3   1   3   7   3   4   1   1   1   2   2   1   1   2   3   1   3   7   3   4   1   1   1   1   2   2   2   2   4   3   1   3   3   7   3   4   1   1   1   1   2   2   2   2   4   3   3   3   7   3   4   3   1   1   1   2   2   3   1   1   3   1   5   1   1   3   1   5   1   3   1   3   7   3   4   4   1   1   1   2   3   3   3   7   3   4   4   1   1   1   1   3   3   3   3   3   7   3   4   4   1   1   1   3   3   3   3   3   3   3																							=		
6 1 4 1 3 3		Contractors, carpen- ters and builders.	Dressmakers and seamstresses.	Drivers, hostlers and teamsters.	Druggists	Dyers.	Engineers.	Engravers.	Electricians.	Expressmen.	TO E1 PLO	RY M- YES.	Farmers.	Firemen.	Fishermen.	Florists and gardeners.	Foundrymen and moulders.	Glassblowers.	Glassworkers.	Grinders and polishers.	Groeers.	Hatters.	Hotelkeepers, restau- rateurs and stewards.	Housekeepers and housewives.	Icemen.
2        1       1 <th></th> <th>···i</th> <th></th> <th>15 31 16 4 4</th> <th>1 </th> <th>i :: ::</th> <th>: : : :</th> <th></th> <th>1 1 2</th> <th></th> <th></th> <th></th> <th>1</th> <th><u> ::</u></th> <th>: : : : : : : : : : : : : : : : : : :</th> <th>i </th> <th></th> <th>::</th> <th>::</th> <th>1</th> <th>i </th> <th>12 6 5</th> <th>1 1 1</th> <th>39 16 5</th> <th></th>		···i		15 31 16 4 4	1 	i :: ::	: : : :		1 1 2				1	<u> ::</u>	: : : : : : : : : : : : : : : : : : :	i 		::	::	1	i 	12 6 5	1 1 1	39 16 5	
2       1       2       1       33       1       6       1       1       1       1       6       1		48	21	71	2	3	16	1	4	0	3	9	51	9	2	9	15	2	1	10	5	30	4	696	0
1	-	2585		2 2 6 1	i	i	i 1 1	i					1 1 6 6 15 10 3	i	i	2 1 1	i		··· ··· ··· 2 1	····i	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	1 1 2	33 62 96 75 46	
2 4 1 2 1 1 2 1 1 2 1 1 1 4 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•	15	4	11	1	1	3	1	0	0	0	0	42	1	1	4	1	0	3	1	3	6	4	326	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-		• • • • • • • • • • • • • • • • • • • •	3 4 1	· · · · · · · · · · · · · · · · · · ·		2						1 1 1 5 2 2	i		i				1		i i	· · · · · · · · · · · · · · · · · · ·	9	
2 1 1 7 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1		12	0	8	1	1	3	0	0	0	0	0	11	2	0	1	0	0	0	1	0	2	1	42	0
			1 1 3 4	···· <u>2</u>	3	3		i	3		1 1 1	i	1	2		 	2 1 2	1 2		i	1 1 1	 1 3 4 3 1		18 39 72 120 131 128 46	i

TABLE 46.—SHOWING OCCUPATIONS OF DECEDENTS IN NEW JERSEY, WITH

FOR THE YEAR ENDING

											F	701	R TH	E	YE	A	1	INS	NIC	IG
		Janitors and watchmen.	Jewelers and watchmakers.	Laborers,	Laundresses.	Laundrymen.	Lawyers.	Leatherworkers.	Letter carriers.	Linemen.	Locksmiths.	Machinists.	Managers and superintendents.	Manufacturers.	Masons.	Merchants.	Milkmen.	Miners.	Millers.	Musicians.
Consumption.	80 to 90			8 2	i i 	3 1		5 1 2	i	i i i	:: -:	18 11 7 1 5 1		:: ::	 5 1 5 3 2 	1 	- : : : : : : : : : : : : : : : : : : :	:: :: ::		<b>2</b>
Total	s	7	19	358	2	4	3	12	1	2	0	43	6	6	16	29	0	1	0	2
Č. Does.	50 to 60. 60 to 70. 70 to 80. 80 to 90. Over 90.	3 1 6	1 1 1	3 4 18 20 25 6 2	:: :: :: :: ::	i :: :: ::	1 1	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	0	1 1 4 1 	1 22	::  -:	:: 1 4 1 :1	1 · · · · · · · · · · · · · · · · · · ·	0	0	· · · · · · · · · · · · · · · · · · ·	
- Suicide.	10 to 15	i 	1 2	11 12 5 7 5 1			i ::	1  2				1 2 	i	i	 1  2	1 1 1 1				i
Totals.		1	4	41	0	0	1	3	0	0	0	4	1	1	3	5	0	0	0	1
Diseases of the nervous system and of the organs of sense.	10 to 15. 15 to 20. 20 to 30. 30 to 40. 40 to 50. 50 to 60. 60 to 70. 70 to 80. 80 to 90. Over 90		 1  2 1 2	22 16 37 48 50 30 10		1 1	 1 3 	 1 1 1 	 1			1 1 2 9 4 3 1	1 2 1 1	33521	23 52 52 52 3	14 8 14 15 12 1		1 1 1		1 1 1
Total	ls	14	6	218	0	3	8	3	1	0	0	24	5	14	22	55	0	2	0	2

SOME OF THE PRINCIPAL CAUSES OF DEATH, AND AGES AT DEATH, DECEMBER 31, 1904.

-			_			_	÷	_			_				_	_		-		_	_	_	_	_	_			
Nurses. Painters.	Paperhangers.	Photographers.	Physicians.	Plumbers.	Porters.	Potters.	Printers.	Railroad employes.	Rubberworkers.	Sailors.	Salesmen.	Shoemakers.	Silkworkers and silkweavers.	Stonecutters.	Tailors.	Tanners.	Teachers.	Telegraphers.	Tinsmiths.	Undertakers.	Upholsterers.	Waiters.	Weavers.	Wheelwrights.	Wireworkers.	All other occupations.	All other professions.	All other trades.
2	1 1 		· · · · · · · · · · · · · · · · · · ·	10 5 2 1 2 	2 4 1 	··· 7 7 9 3 ··· 26	1 14 11 2 5 1	 	i  	 1	9 9 6 2 4	 5 4  2 3 	11	1	1 5 2 5 3 1	1 2 1 	5111		1 2 4 1 	i i ···	· · · · · · · · · · · · · · · · · · ·	5 5 3 	1 2 4 1 		i :: ::	25 11 9 2 4  51	77 11 33 0 	1
1 1 1 1 1 1 1	1-1	· · · · · · · · · · · · · · · · · · ·	i i i i i i i i i i i i i i i i i i i	1 1 1 	0	1 1	1 1 1	1 1 2 2 2 6	0	0	1 3 1 1 1 	1 1 1 1 1 			1 1		1 1 1	0	· · · · · · · · · · · · · · · · · · ·		1	0	13	0	0	1  6 1 3 2	2 1 1 2 	 1 2 1 1 1
· · · · · · · · · · · · · · · · · · ·	i :: :: :: 1	0	i :: :: :: ::	i	i ::	0	1 1	1 1 1	0	0	1 1	1 2 1 2 		2	1 3	i	0	0	i	· · · · · · · · · · · · · · · · · · ·		  1	······································	0	0	1 4 3 2 		1 1 1 1 3
3 4 1 10 3 2 1 7	:: :: :: 1	i i	24 2 2	i 1		i i	2	77 1 6 1 1 1 1 18	i i i 	1 2	1 1 6 8 4 3	5 7 8 3		i i 1 i 1 i 1 i 1 i 1 i 1 i 1 i 1 i 1 i 1	34442	1	i i i	· · · · · · · · · · · · · · · · · · ·	1 1 2	i 	i i i	1 3 	1 1 1 4	i i i i i i i i i i i i i i i i i i i	1	11 16 69 60 88 99		1 3 1 5 6 7 9

Table 46.—showing occupations of decedents in new jersey, with  ${}^{\circ}$  for the year ending

	-	_	_				_		_	_	_	-		-		_		
	Bakers.	Bankers and brokers	Barbers.	Bartenders, brewers and saloonkeepers.	Blacksmiths.	Boatmen.	Bookkeepers.	Brass and iron workers.	Brickmakers.	Butchers.	Buttonmakers.	Chemists.	Cigarmakers.	Clergymen.	Clerks.	Cooks.	Coopers.	Constables and policemen.
The state of the s	1 1 2 1 3 2	1 1 	1 1 1 1 1	1 3 4	······································	<u> —                                   </u>	:: :: ::	1 1 1	1 	····25434	1 2 1	::	2 1 2 1	1223	 8 7 8 4 6 5		:: i	i
Totals	10	2	5	9	23	20	1	4	1	18	4	0	6	8	41	7	1	1
10 to 15	1 2 2 1 2 	:: :: ::	i i :-	1 5 - 4 2 1	3 1 3 2 5 1	32134	2 3 5 2	1 8 1 2 2		3 6 2			 1 2 	 1  3	1 6 14 8 12 4 3 1	1 .2		1 1
Totals	8	1	2	13	16	13	12	9	0	13	0	0	4	5	49	3	0	2
equip 10 to 15	i	:: :: 1 1	331	1 2 10 5 2	1 1 1	1 2 1 1 6	 5 4 2 	1 1 2 3	i	 1 3			 2  1	:: :: 1 1	36 54 32 1		:: :: :: ::	1 1 1
Totals	3	2	7	20	4	11	11	7	1	4	0	0	á	2	24	0	0	3
Discrepance of the second of t	3314	2 	4 2 1 2 1	2 6 5 4 1	::	3	1 .1 53 .2	1 2 1 1		1 1 2 1 5	::		· · · · · · · · · · · · · · · · · · ·	2	4 6 3 3 7 7	· · · · · · · · · · · · · · · · · · ·		1 1
Totals	11	3	10	18	9	20	1	5	1	ſ	ĺ	ĺ	6	2	30	2	0	Į <b>2</b>
All others	10	5	11	19	10	62	7	24	1	16	0	0	6	10	73	5	0	7

SOME OF THE PRINCIPAL CAUSES OF DEATH, AND AGES AT DEATH, DECEMBER 31ST, 1903.

Contractors, carpenters and builders.	.98	ostlers sters.					ns.	en.	FA TO El PLOY	RY 1-					an and	rs.	re.	pt			rs, restau-	ers and	=
Contractors, carp ters and builders.  Dressmakers and	seamstresses.	Drivers, hostlers and teamsters.	Druggists.	Dyers.	Engineers.	Engravers.	Electricians	Expressmen	Males.	Females.	Farmers.	Firemen.	Fishermen.	Florists and gardeners.	Foundrymen and moulders.	Glassblowers	Glassworkers.	Grinders and polishers.	Grocers.	Hatters.	Hotelkeepers, restau- rateurs and stewards.	Housewives.	Ioemen.
1 5 4 14 15 17 4	1 1 2 1	1 3 4 5	1 4 3 1 	1			1 1 1 1		2 1 1 1 1		1 1 4 6 18 38 42 28	i i	 1 2 1 1	1 1 3 3 3 1	2 2	:: 1 1 ::	i	i	 4  1	3 4 3	1 2 3 3 2	33 65 83 132 146 99 32	
60 1 4 8 9 10 12	6   2	13  11 11 5 10 6 1	10  1	1   1	12  1 3 4 5	0  1 	3	0	6  1 1	i ::	138  1 1 4 6 2 11 21 16	2	5	12  3  1	4 3 3 3 2	3  1 	1 1 2	1  1 1 	9   1 2	11  2 1 6	11 i	596 7 42 101 76 100 111 64 36	0
12	1  3	1  44	1	1	1 3 1 	1	1	· · · · · · · · · · · · · · · · · · ·	2	1	21 16 16 3	1 2 1	<u>  · ·</u>	1 2 2  9	15	1	3		5	1   10	1 1 	539	0
1 3 . 3 . 9 . 15 . 9 .	i 	7 2 8 2 2 	1 3 1 1		1 1 1 1		i		1 1 1	0	3 1 4 6 13 16 9 2	<u>  · · ·</u>	i	1 1 1 1 1 1	3	i	1	1 1 1	1 1 1	1 1 2 1 	1 3	3 56 77 64 72 78 46 14	 
2	1 2 2	1 2 3 7 8 1	1 1 3 1 1	1 1 1	1 1 1 2 4 2	1 1	i		i ::::	2	29 9 19 34 10	i	i	1 2	2 2 2 2 2			22 1	1 1 2 2	2 1 3 8 1 1	1 1 2 3	2 45 72 86 93 59 52 20	1
51 78	5 10	22 84	0	3	11 26	1	5	0	7	1	1	13	3	25	l	1	0	1	6	16 12	7		1

TABLE 46.—SHOWING OCCUPATIONS OF DECEDENTS IN NEW JERSEY, WITH FOR THE YEAR ENDING

							_		_==				_	_		_			=
	Janitors and watchmen.	Jewelers. watchmakers.	Laborers.	Laundresses.	Laundrymen.	Lawyers.	Leatherworkers.	Letter carriers.	Linemen.	Locksmiths.	Machinists.	Managers and superintendents.	Manufacturers.'	Masons.	Merchants.	Milkmen.	Miners.	Millers.	Musicians.
To to 15  15 to 20 20 to 30 30 to 40 20 to 30 30 to 40 20 to 60 20 to 60 20 to 60 20 to 70 20 to 80 20 to 90 20 to 90 20 to 90	3 3 6 2	::::	 1 9 30 36 53 49 47 8		1 1	i	1 2 3 4	i	1 		3 27 4 2	1 1 3 1	11433	14 3431 :	13 13 17 13 4			i ::	2
Totals	15	13	233	0	2	2	10	1	1	0	18	6	12	16	51	0	0	1	2
Diseases of the red th	3 5 7 2 1	1 2	247 49 66 66 48 26 8		i 	 1 1 1 1 1	1 2 3 3	· · · · · · · · · · · · · · · · · · ·		: : : : : : : : : : : : : : : : : : :	 5 4 5 3 1 1	1 · 1 · · · · · · · · · · · · · · · · ·	1 2 1 2 4	1 7  5 1	3 6 4 9 10 9		 2 	:: :1 :: ::	2
Totals	18	3	314	0	1	6	9	3	0	0	25	6	10	21	41	0	3	1	2
Here is a second of the control of t	1 1	1	3 17 18 22 27 21 20 4		· · · · · · · · · · · · · · · · · · ·	 2 	 1 1	 1 1 			226382	1 3	24	2 2	3 1 2 5 8 5		i		
Totals	2	1	132	0	1	2	2	2	0	0	23	5	6	7	24	0	1	0	0
Discasses of the genito-unimary style from a model of the genito-unimary style	1 1 3 5 1	1 2 3 4 1	7 30 28 36 32 30 6			· · · · · · · · · · · · · · · · · · ·	 1 2 2 3 1 1	 1 1	i ::		1 1 6 5 7 2	1 4 1	1 1 3 1	1 2 3 5 4	1 9 7 6 8		i		i
Totals	11	6	169	0	0	7	10	2	1	0	27	6	6	20	33	0	1	0	1
All others	25	16	552	8	6	11	7	0	10	0	32	10	14	24	76	2	12	0	11

- SOME OF THE PRINCIPAL CAUSES OF DEATH, AND AGE AT DEATH, DECEMBER 31ST, 1903.

	_		_	_	_	_	-							1		_				-								
Nurses. Painters.	Paperhangers.	Photographers.	Physicians.	Plumbers.	Porters.	Potters.	Printers.	Railroad employees.	Rubberworkers.	Sailors.	Salesmen.	Shoemakers.	Silkworkers and silk weavers.	Stonecutters.	Tailors.	Tanners.	Teachers.	Telegraphers.	Tinsmiths.	Upholsterers.	Undertakers.	Waiters.	Weavers.	Wheelwrights.	Wireworkers.	All other occupations.	All other professions.	All other trades,
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TABLE 47 -- SHOWING OCCUPATIONS OF DECEDENTS IN NEW JERSEY, BY COUNTIES, EXCLUSIVE OF CITIES OF OVER 5,000

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TABLE 47 SHOWING OCCUPATIONS OF DECEDENTS IN NEW JERSEY, BY COUNTIES, EXCLUSIVE OF CITIES OF OVER			Atlantio Bergen Bergen Burjingto Camden Cappe Ma, Cappe	
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TABLE 48.—SHOWING OCCUPATIONS OF DECEDENTS. IN CITIES OF OVER 5,000 INHABITANTS IN NEW JERSEY FOR YEAR

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TABLE 48.—SHOWING OCCUPATIONS OF DECEDENTS IN CITIES OF OVER 5,000 INHABITANTS IN NEW JERSEY FOR YEAR ENDING DECEMBER 31ST, 1903.—Continued.	819Jue	Contractors, carps and builders.	26-5852
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TABLE 48.—SHOWING OCCUPATIONS OF DECEDENTS IN CITIES OF OVER 5,000 INHABITANTS IN NEW JERSEY FOR ENDING DECEMBER 31ST, 1903.—Continued.	Laborers.	28418640
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TABLE 49.—SHOWING NUMBER OF DEATHS IN NEW JERSEY FROM BACH OF THE CLASSIFIED CAUSES BY COUNTIES, FOR THE YEAR ENDING DECEMBER 31ST, 1903.

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Angina Pectoris	6				_		0	22	9	12	-	-	20	1	1	1					130

TABLE 49.--SHOWING NUMBER OF DEATHS IN NEW JERSEY FROM BACH OF THE CLASSIFIED CAUSES BY COUNTIES, FOR THE YEAR ENDING DECEMBER 31ST, 1903.—Continued.

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Monmouth.	01	<del>8 : 1 : 0</del>	24 58 18 10 1
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×	Ç D	Camden.	10	:∞ <u>∞</u>		089	N : N	0100		1836
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LE			- A de	Surns by Corrosive Sunstroke and Freezi	nanition.	cepted. her Accidental Poisoning her External Violence.	xhaustion-Cachexia ever ] Gastric Dis Inflammate	sphyxia-Cyanosis	Abdominal Tulther Tumors.	Grand Total
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TABLE 50.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

•				AG	E P	ERI	ODB					
DEATHS IN ATLANTIC CITY.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	
Typhoid Fever				_		<del> </del>			3			-
carlet Fever. 6 Whooping Cough 7 Diphtheria and Croup 8		5	6	1 4	::							
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### BUREAU OF VITAL STATISTICS.

# IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.—Continued.

	AGE	PE	RI	DB	٠.		SE	<b>x</b> .	COLOR.				N	TAT	IVI	Γ¥.				_			DITI		
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Elighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
1 1	12.3.1.1.111	11 11 11 13 11 11 11 11 11 11 11	11	3 21 11 1 1 1 1 2		1	7722211211444	41 199 74 222 21 11 11 34 421 11 11 11 14 43 33 15 11 11 11 11 11 14 14 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	1	Till	1 1	1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11					1 i i i i i i i i i i i i i i i i i i i	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 1 111 9 2 2 11 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

## TABLE 50.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

				AG	E P	ERIC	BGC		_		_
DEATHS IN ATLANTIC CTIY.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Other Diseases of the Uterus.         112           Ovarian Cysts and Other Ovarian Tumors         113           Accidents of Pregnancy.         116           Puerperal Hemorrhage         117           Puerperal Septicemia         119           Puerperal Albuminuria and Eclampsia         121           Erysipelas         126           Phlegmon. Ac. Abscess         128           Other Diseases of Bones.         132           Congenital Debility Icterus and Sclerema         138           Want of Care.         138           Other Diseases Peculiar to Infancy         140           Senile Debility         141           Suicide or         By Poison         A           Attempt at         By Strangulation         142           C         Suicide.         By Firearms         D           Fractures         143         D           Other Accidental Injuries         146         A           Sunstroke and Freezing         147         Accidental Drowning         148           Inantition         149         B           Inantition         150         A           Other External Violence         152           Gastric Disorder         154         A <td>20 1 2</td> <td>14 2</td> <td>1 2</td> <td></td> <td></td> <td>1</td> <td>i i i i i i i i i i i i i i i i i i i</td> <td>i</td> <td>1 1 1</td> <td>1  2  1 1</td> <td>· · · · · · · · · · · · · · · · · · ·</td>	20 1 2	14 2	1 2			1	i i i i i i i i i i i i i i i i i i i	i	1 1 1	1  2  1 1	· · · · · · · · · · · · · · · · · · ·

Death Rate 15.33.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

Fifty to fifty-five to sixty.   Fifty to fifty-five to sixty.   Fifty-five to sixty.   Fifty-five to sixty.   Fifty-five to sixty.   Fifty-five to sixty.   Sixty to seventy.   Sixty to seventy.   Sixty to seventy.   Sixty to sighty.   Sixty to seventy.   Sixty to seventy.   Sixty to sighty.   Sixty to sighty.   Sixty to seventy.   Sixty to seventy.   Sixty to sighty.   Sixty to seventy.   Sixty to sixty.   Sixty to sixty.   Sixty to seventy.   Sixty to seventy.   Sixty to sixty.   Sixty to six to sixty.   Sixty to sixty.   Sixty to sixty.   Sixty to sixty.	CONDITION.	ć					ry.	ivi	AT	N				COLOR.	x.	SE		8.	RIO	E PE	AG	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Single. Widowed. Not stated.	Married.	Not stated.	Other foreign.	Sweden.	Hungary.	Scotland.	Italy.	Ireland.	Germany.	France.	England.	United States.	Color of decedent white unless designated by mark.	Female.	Male.	Not stated.	Over ninety.	Seventy to eighty.	Sixty to seventy.	Fifty-five to sixty.	Fifty to fifty-five.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1 1 1 1 1 1							2.1.1				1 1 3 1	1	1 1 1 1	····		 :::: ::::				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 1	1 1 1 2			**	1 4 1 4 1 4 1 4			1.4				1 2 2	1	1 1 1	1 2		:   : ::	i	i		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	36				++								36	1	20	··· 4					•••	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$						6.4 6.4 6.4				• •	::		1 2	1	1							
2   1 1 1 1 1 1 1	3 1 : 2 :	3 2 2 5	3		**	1.4 1.8 1.8	11		1		1	**	3 2 2	1	2	4		: :: : ::		i		i 1
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# TABLE 51.—TABULATION OF DEATHS FRON THE CLASSIFIED DISEASES THE YEAR ENDING

	_			AG	E P	ERI	ODE	3.				
. DEATHS IN BAYONNE.	Under one month.	Under one year.	One to five.	Five to ten.	-			[ ]	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Typhoid Fever         1           Searlet Fever         6		<u>·</u>	<u></u>	25	i	1		1				-
Whooping Cough7	• • •	4	9	0	• • •	4			٠٠		••	١٠٠
Dibhtheria and Croup	• • •	3	18	· · · 5	•••	i i			11		•••	
Pymmia and Santismmia 14			ĭ	ĭ					1		::	l::
Tuberculosis of the Lungs 22 A B Syphilis 24	2	2	2	1 2 	i	8	9	8	12	6	4	5
Of the Meninges	٠٠.	,	1								٠.,	ļ
Syphilis	3	1										
Of the Female Conital Organs	• • •			• • •	• • •	• •	• •		2		2	1
Of the Stomach and Liver   B   B   C   C   C   C   C   C   C   C	• • •			• • • •	• • • •		i				٠,	١٠.
1				: : :				: . I				]
Diabetes					!				1			li
Alcoholism (Acute or Chronic)	٠٠,							٠		2		
Simple Meningitis	1	9	9	2			1		1		٠.	٠.
Gerebral Hemorrhage and Congestion	1	1	• • •	•••	• • •	· ·	1		1	٠٠١	• •	3
Paralysis Without Indicated Cause	• • •	• • •	• • • •	•••	:::	••			٠٠١	••		• •
Feneral Paralysis					:::				::			i
Other Forms of Insanity			:::			::	::		::1	i		
1	1							1				
Von-Puerperal Eclampsia48		1							٠.	٠.١	٠.	٠.
onvulsions of Infants49	4	7	4		ا ن			ا: ٠	٠٠		٠٠/	٠.
etanus	٠٠٠	• • •	$\cdots$	• • •	1	• •		1	• •	• •	٠٠	٠.
Diseases of Nervous System	ا: ۱	• • • •		٠٠; ا	• • •	٠;١	٠.	.:	٠.	٠.	٠٠!	٠.
Proprie Diseases of the Heart 57	-		1	2	٠٠٠١	2	-	-1	1	-	. 9	٠.
Ingina Pectoris						. ~			-		-	•
Diseases of Arteries, Atheroma, Aneurism, etc' 59		]	1	]	1	1	::1		1	[		i
Embolism		1				٠.,			٠.١	1		i
lemorrhage		ا:٠٠	اند	• • •			1	1		[	• •	1
Diseases of the Larynx and Thyrold Body		7	2	• • •	• • •	• •	• •	٠٠	• •	٠٠,	• •	٠.
Diseases of Arteries, Atheroma, Aneurism, etc'		-	-	• • •	• • •	٠٠	• •	•••	• •	· i	$\cdot \cdot  $	٠.
Broncho-Pneumonia. 71	2	15	14			i				. 1	٠.١	٠.
neumonia		10	7		2	2	3	6	9	6	2	• 2
Pleurisy	!		11	]	1	٠.,	٠.١		٠.١.		!	
Pleurisy 73 Congestion and Apoplexy of Lungs. 74 sthma. 76	4				!	!	I .		1 .			٠.
Asthma	.:	• • • '	• • •	• • ;	• • •	• • [	انه	• •	• •	1	• •	٠.
other Diseases of the Respiratory System	1	•••	ا: ٠٠	1	• • •	• •	2	••	•• •	• •   •	• •	٠.
Other Diseases of Stomach (Cancer Excented) 81	· •	``i	*					٠.	٠٠١٠	٠٠١:	ان:	٠.
nfantile Diarrhea, Athrepsia	5	41	12	i							. 1	• •
Diarrhœa and Enteritis	;	1		1			[		[		2	2
Oysentery	!	4,	4 .	J.		.	. ا.ِ	٠.١	1.	.		1
Iernia and Intestinal Obstructions		1 .	.			٠.	1.	٠. .	٠.,.	٠.	٠.١	٠.
Other Diseases of the Intestines $\dots 87 A$ .		11.	• • •   •	$\cdots   \cdot$		٠٠[،		$\cdot \cdot   \cdot$	٠.	٠.	٠.	٠.
				- 1	- 1	- 1		- 1		- 1	[	
cute Yellow Atrophy of the Liver	• •	-1.	! .	] .		٠٠١٠	٠.	• • ! •	·	:1:		٠.
Asthma	$ \cdot $	;					i.		3 1	i	2	

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.—Continued.

	AG	E P	ERI	ODI	5.		SI	x.	COLOR.		_		1	TAT	171	TY.							OCIA DI PI		
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Total.
	1 1 4 4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3				284 1738 381 331 121 111 121 182 1777 173 134 134 134 134 134 134 134 134 134 13	762 1121 31.116 1332 119.11.1770222052 2111333374 51111322	1 2	144 612 29 11 122 11 12 11 11 12 11 11 12 11 11 12 12	1 1		1	14 1 1 1 2	1	1	1	1	2 11 .8		4 1 1 2 32  4 1 2 3 3 3 3	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	51112221111111111111111111111111111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	946885691492236333341221122149113222444

TABLE 51.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

				AG	E P	ERI	0D8		_		
DEATHS IN BAYONNE.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five	Twenty-five to thirty.	Thirty to thirty-five.	Forty to forty-five.	Forty-five to fifty.
Appendicitis.	1  4 17 1 3	15	1 3	3	2	1	1	1 1 1 3 3 4 4	2	1	1

#### BUREAU OF VITAL STATISTICS.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 318T, 1903.

	AG	E PI	ERI	) De	3.		8F	x.	color.				N	AT	IV F	Γ¥.							DITI		
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	· Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
1 4  1	1	1	5	i i i i i i i i i i i i i i i i i i i	1		10 14 1 1 1 1 2 7 1 1 2 2 1 2 1 2 1 2 1 2 1 2	1 9 11 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	12 13 2 1 1 1 1 1 4 32 2 2 3 3 3 3 	1 1		1 2 4	1 	· · · · · · · · · · · · · · · · · · ·	1	1		3 1	2	111188 22 1111 11 11 11 11 11 11 11 11 11 11 1	1 1 4 32 2 3	77	22	1 19 25 3 1 1 1 1 1 1 1 2 2 1 1 4 4 3 2 2 2 1 1 2 2 6 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 32	25	41	34	1)	::  -	1	379	300	17	450	26	···	47	86	· · ·	5	:: 	<u>::</u>	2 51		201	398	80		67

#### TABLE 52.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

Search   S		_			AGE	PERI	ODE	١.				
phtheria and Croup.	DEATHS IN BLOOMFIELD.	Under one month.	Under one year.	3	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty
termittent Fever. 19	carlet Fever	1		2			1		<u>.</u>	<u>.i</u>	1	i.
the revioles of the Lungs	iphtheria and Croup								.			
1	ntermittent Fever	· · · · ·	• • • •			· • • •	٠: ا	• •	ر ا د	: ::	·:	ŀ
of the Intestines and Rectum. 25 C	uperculosis of the Lungs.	• • • •	• • • •			• • • • •	1	• •	1 3	5 2	ļ	ŀ
Coholism (Acute or Chrome)   34	of the Intestines and Rectum. 25 C		• • • •			• • • • •		•••	.	٠ ٠٠	*	
Coholism (Acute or Chrome)   34	" of the Female Genital Organs D									: ::	l i	l:
1	abetes										1	I.
neral Paralysis	coholism (Acute or Chronic)	1					!			. 1 1		١.
neral Paralysis	nple Meningitis			4				٠.١	.	٠ ا ٠ ٠		١.
nvulsions of Infants	rebral Hemorrhage and Congestion42	• • • •	• • • •		• • • •		• •		• •   •	.  1	1.:	1.
ganic Diseases of the Heart	neral Paralysis40	• • • •	٠٠.٠			• • • •	• •	• •	• • •		1	ŀ
ganic Diseases of the Heart 57	nvuisions of infants	• • • •			• • • •	• • • •	• •	• •	• •   •	•   • •		ŀ
Seases of Arteries, Atheroma, Aneurism, etc 59	genic Diseases of the Heart. 57		• • • •				•••	••		.		١.
ther Diseases of the Circulatory System. 68 seases of the Larynx and Thyroid Body. 68	accord of Autorios Athonoma Anguriam eta KO	- 1						- 1	- 1	1	1::	١.
1	her Diseases of the Circulatory System 66										ľi	I.
1	seases of the Larynx and Thyroid Body 68.				1					.	1	١.
1	ute Bronchitis		1						.	٠١٠٠		١.
1	ronic Bronchitis							٠٠	.	٠ ا ٠ ٠	· •	l٠
her Diseases of Stomach (Cancer Excepted) 81	oncho-Pneumonia		4	1		• • • •	• •	••	• •   •	۔ ا	1	ŀ
her Diseases of Stomach (Cancer Excepted) 81	eumonia72	• • • •	• • • •	1		• • • • •	• •	••	· ;   ·	·  1	• •	ļ
her Diseases of Stomach (Cancer Excepted) 81	hor Diseases of Pagning town System 77 R		• • • •		• • • •	• • • •	•••	•••	1.	.   4		ŀ
rmia and Intestinal Obstructions 86 her Diseases of the Liver 92 1 92 1 92 1 93 1	her Diseases of Stomach (Cancer Excented) 81	- 1	• • • •		• • • •	• • • •			٠٠]٠.	il		١.
rnia and Intestinal Obstructions 86 her Diseases of the Liver. 92 1	sentery											ľ
her Diseases of the Liver	rnia and Intestinal Obstructions	1	'	1	1		l ł				1	1
Sammatory Peritonitis (Non-Puerperal)	her Diseases of the Liver92	1					1	1	.			١.
cidents of Pregnancy	lammatory Peritonitis (Non-Puerperal)93	1							.		<b> </b>	١.
tts' Disease       130       1         ngenital Debiltiy Icterus and Sclerema       138       4         nile Debiltity       141         cide or Attempt at Suicide by Poison       142       A         her Accidental Injuries       145       1       1         nstroke and Freezing       147       2       2         cidental Drowning       148       1       1         known or Not Specified Diseases       161	ght's Disease97		!						.	.		
141	cidents of Pregnancy	1					• •	••1	.	٠   ٠ ٠		ŀ
141	tts' Disease		٠٠ <u>٠</u> ٠	1						•   • •	¦••	ŀ
icide or Attempt at Suicide by Poison 142 A	ngenital Debility Icterus and Scierema138	4	7	• • • •		• • • •		• •	• •   •	•   • •		1.
her Accidental Injuries       145       1       1         nstroke and Freezing       147       2       1       1         cidental Drowning       148       1       1       1         iknown or Not Specified Diseases       161	icide or Attempt at Suicide by Poison 142 A	• • • •	• • • • •			• • • •	• •	$\cdot \cdot  $	.	٠١٠.		1
nstroke and Freezing       147       2           xcidental Drowning       148       1        1         nknown or Not Specified Diseases       161	her Accidental Injuries 145	- 1				· · i ·				i ··	1 4	1
	nstroke and Freezing 147											1.
	cidental Drowning. 148				'i'					.   . :	i	1:
	known or Not Specified Diseases 161									.	١.٠	1:
Totals	-					1	1	_ -	- -	-	-	-

Death rate 11.21.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

	▲G	E	PE	RIO	DS.		SE:	ĸ.	COLOR.					NAT	IVII	Y.					C		IAL	N.	
and so may not	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	. Not stated.	TOTALA:
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### TABLE 53.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

				AGE	PERI	ODS						
DEATHS OF BORDENTOWN:	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Postur fire to 6fter
yphoid Fever							1	1				-
mallpox4 yæmia and Septicæmia14												
of the Lungs.												
⊇ (Of the ( and )			1				3		1	1	••	1
Meninges.   B   Cof the Stomach   And Liver   B   B   B   B   B   B   B   B   B			• • • •						• •	$ \cdot $		1
of the Intestines and Rectum.			• • • •		• • • •	$ \cdot $	• •	$ \cdot $		ŀή		ľ
		• • • •				· ·		$ \cdot $	• •		$ \cdot\cdot $	ŀ
Genital Organs						$ \cdot\cdot $	$\cdot \cdot  $	$\cdots$	• •	l··¦	• •	ŀ
ishetes 28	il i					::				1		Ľ
mple Meningitis. 39 erebral Hemorrhage and Congestion 42		3	1			::						Ľ
erebral Hemorrhage and Congestion 42									Ш	1		1
oftening of the Brain						1 1			Ш	I		ľ
aralysis Without Indicated Cause							::	•••	٠.١	٠ <u>٠</u> ١		1
eneral Paralysis 45	1						٠.١		٠.١	١. ١	١٠.١	1
rganic Diseases of the Heart					i i						i i	ľ
ngina Pactoria A8					•	١١	٠.١	٠.١	٠٠,	١٠٠١	*	1
iscours of Arteries Atheroma Angurism etc 59						١. ١	٠.١	٠.١	٠.١	١٠٠١	١٠٠١	1
cute Bronchitis. 69 neumonia. 72 ther Diseases of Stomach (Cancer Excepted). 81		i i				١٠٠١		٠.١	٠.١	١١	i i	ı
neumonia. 72	1	2				١١				I I	•	ı
ther Diseases of Stomach (Cancer Excepted) 81	1	_				١٠.١	٠.١	٠.١	٠.١		١٠٠١	ŀ
fantile Diarrhœa, Athrepsia82			1			١٠٠١			٠.١	۱∷ا		1
iarrhœa and Enteritis83								ΞÏ		١٠٠١		1
irrhosis of the Liver					· · · · •	١٠٠١				::		ı
ther Diseases of the Liver						١٠٠١	٠.١					
formatory Paritonitis (Non-Puerperal) 03						١٠٠١	!		]		• • •	١
auta Nachritia Q6							٠.,			٠٠١		ı
right's Disease						$ \cdot\cdot $	}	• • •		. • • }	ا٠٠١	١
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Death rate 18.73.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

	AGE	PE	RIC	ÐS			SE	x.	co	LOR					1	NAT	IVI	TY.	•					CON	OCIA	ON.	
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white	unless designated by mark.		United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
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### TABLE 54.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

				AG	E P	ERI	OD8	١.				_
DEATHS IN BRIDGETON.	Under one month.	Under one year.	One to five.	Five to ten.	-		Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	-		Forty-five to fifty.
Typhoid Fever	i	i	i i	4	i	1	3	· · · · · · · · · · · · · · · · · · ·		  	1 3	i i
Simple Meningitis			2			• •	i				• •	
Cerebral Hemorrhage and Congestion. 48 Softening of the Brain 48 Paralysis without Indicated Cause 44		:::				::	::	: · ·		 	::'	::
Ceneral Paralysis   42   43   44   44   44   44   45   45   45	'	1	1									
Embolism. 66 Other Diseases of the Circulatory System. 66 Diseases of the Larynx and Thyroid Body. 68 Chronic Bronchitis. 77 Broncho-Pneumonia. 77 Pneumonia. 77 Pneumonia. 77 Pulmonary Emphysema. 77 Pulmonary Emphysema. 77 Pulmonary Emphysema. 77 Pulmonary Emphysema. 87 Other Diseases of the Respiratory System. 87 Infantile Diarrhœa, Athrepsia. 83 Diarrhœa and Enteritis. 83 Hernia and Intestinal Obstructions 86 Acute Yellow Atrophy of the Liver. 88 Cirrhosis of the Liver. 89		2	i 2		2			i 1			i	
Other Diseases of Stomach (Cancer Excepted) .81 Infantile Diarrhœa, Athrepsia83 Diarrhœa and Enteritis83 Hernia and Intestinal Obstructions .84 Acute Yellow Atrophy of the Liver86 Cirrhosis of the Liver99	1	7				i	1					

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.—Continued.

	AG	E PI	CRI	ODE	١.		63	x.	COLOR.				1	ra?	IVI	TY.							DITI		
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Total.
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TABLE 54.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

				AG	E PI	ERIC	ods					_
DEATHS IN BRIDGETON.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five	Twenty-five to thirty.	Thirty to thirty-five.		Forty to forty-five.	Forty-five to fifty.
Other Diseases of the Liver         92           Inflammatory Peritonitis (Non-Puesperal)         93           Acute Nephritis         96           Bright's Disease         97           Other Diseases of the Kidneys and Adnexa         100           Diseases of the Bladder         102           Gangrene         126           Other Diseases of Bones         132           Congenital Debility Icterus and Sclerema         138           Want of Care         138           Other Diseases Peculiar to Infancy         140           Senile Debility         141           Other Accidental Injuries         145           Burns by Fire         146           Austroke and Freesing         147           Accidental Drowning         148           Other Accidental Poisoning         153           Abdominal Tumor         158	8	1			1 1	i		1 1 1	1	1	i	······································
Totals	15	16	9	5	5	7	7	6	5	8	7	5

Death-rate 13.78.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

	AGI	E PE	RIC	DDS					COLOR.					IAT	IVI	TY.		-				CON	DITI	L ON.	_
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
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### TABLE 55.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

				AGI	e pr	RIO	DB	•				
DEATHS IN BURLINGTON CITY.	Under one month.	Under one year.	One to five.	Five to ten .	Ten to fifteen.	Fifteen to twenty.	•		Thirty to thirty-five.	- 1	Forty to forty-five.	Donter-fine to After
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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 318T, 1903.

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TABLE 56.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

				AG	E P	ERI	OD8	s. 				_
DEATHS IN CAMDEN CITY.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Typhoid Fever	!	_		_	<u> </u>	2	_	2	1	2		
Smallpox4	٠		2		٠٠ <u>:</u>	1		٠.		!	i	1
Scarlet Fever		· · · 6	8	6	2		• •	• •	• •		• •	٠.
Diphtheria and Croup		ĭ	7	6	i	::						
Scarlet Fever.   6		1	1							ا	ا: ا	
Pysemia and Septicemia14		٠٠,	1 2		415	iń	26	10	14	10	ğ	iò
Of the Meninges.			í		410			î	17	10		10
Of Other Organs				! ! !			1					
General			1			٠٠		٠.				٠.
Syphilis	i		• • •		٠٠٠.					• •	i	· 3
Of the Intestines and Rectum			: : <b>:</b>		'	1	::			:		٠
Of the Female Genital Organs			· · •					1		1	2	3
Of the Skin				· • •			• •	.:			• • ;	٠.
Others			i					i	i	i		•
Of the Skin. Others. Rheumatism.					i					۱ ا		1
Diabetes				• • •				• •				
Alcoholism (Acute or Chronic) 34			· · i			• •		::	1	1 1	9	• •
Other Chronic Poisonings	1	:::			: : :				î			
Encephalitis	· • •			· <u>.</u>				٠.		٠,		
Simple Meningitis	2	14	10	3		1	٠.	1	• •	1	$ \cdot\cdot $	٠.
Cerebral Hemorrhage and Congestion. 42		4	· · · ė			i	• •	• •	•		5	· .
Softening of the Brain43		<del>.</del>										_
Paralysis Without Indicated Cause44			2	1				٠.			1	i
Other Forms of Inscritz			• • •	• • •		٠.	!	• •	i			
Non-Puerneral Eclamosia 48	1					i		::				• •
Convulsions of Infants49	11	17	9						٠.			
Tetanus	7		· · •		1		• •	٠.			!	٠.
Pericarditis			• • •		:::			• •		1 1		ī
Endocarditis. 56 Organic Diseases of the Heart 57				i		i		1			i	
Organic Diseases of the Heart	7	 5	1	1 1	1	2	2	1	8		4	6
Angina Pectoris												• •
k'mboliem 60				1			1	1	i			• •
Hemorrhage. 65 Other Diseases of the Circulatory System 68 Acute Bronchitis. 69 Chronic Bronchitis. 70 Bronche-Pneumonis 71	1			1	1	٠.	1		٠.	]		
Acute Properitie	• • •	٠٠;					• •	• •	• •	• •	1	• •
Chronic Bronchitis												• •
Broncho-Pneumonia71						. <u>.</u>				2 7		
Pleurieu	2	19	21	4	2	3	3	1	5	. 7	4	6
Congestion and Apoplexy of Lungs 74		7	4	j							. *	i
Asthma			<del>.</del>									
Other Diseases of the Respiratory System77 B		1			1	1	1	$ \cdot\cdot $	1	]	1	٠.
Ulcer of Stomach 80	• • •	• • •	• • •	• • • •	• • •				• •			٠.
Other Diseases of Stomach (Cancer Excepted)81	i		2	:::							i	ż
Broncho-Pneumonia.	3	48	8	2	2							٠.
Diarrhoea and Enteritis	1	1	1	• • •		$ \cdot \cdot $	٠٠	• •		$ \cdot\cdot $	• •	2
Lysenvery		!		٠		١.,	ا ا		!	!	<u></u>	٠.

#### BUREAU OF VITAL STATISTICS.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.—Continued.

	AG	E P	FRI	OD	3.		8E	х.	COLOR.				N	ΑT	IVP	FY.							OCIA		
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Itlay.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
1 3 3 1 1 1 1 1 2 2 1 2 9 1 1 1 1 1 1 1 1 1 1	9 1 1 1 2 2 2 100 11		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0		5 33 104 774 469 1 · · · · · · · · · · · · · · · · · ·	33666912791102227721111 151392102221144114662232	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1 1 1 1 1 3	2	1 .4	1 1 3 1		1		<b>6</b>	3 1 1 1 1 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	55 22 33 866 · · · · · · · · · · · · · · · · · ·	3 3 3 16 10 16 3 2 48 2 2 2 1 1 1 1 	1 1 1 1 1 1 1 1 1 1 3 3 3 2 2 2 2 2 2 2	21	148
 4 i	1 ···4 ···· 2	1 2 10 	3 6 1 3 1	2 1	i		3 1 46 2 10 1 7	1 2 3 58 1 8	16 1 4	6 3 86 1 16	i	1	1 9 1 1 1	2 1 					2	i	1 2 33 2 4 1 5	l	20 20 		10
i	i	···· ···· 2	3 1	1			1 5 35 4	10 28 6	3 14 2	14 60 9	::    i		· · · · · · · · · · · · · · · · · · ·	1 1 1						::	1  4	63	2	i	1

### TABLE 56.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

				▲G	ID IPI	ERIC	ODS					
DEATHS IN CAMDEN CITY.  Hernia and Intestinal Obstructions. 86 Other Diseases of the Intestines. 87 A Dither Diseases of the Liver. 90 Other Diseases of the Liver. 92 Inflammatory Peritonitis (Non-Puerperal). 93 Appendicitis. 95 Bright's Disease. 97 Other Diseases of the Kidneys and Adnexa. 100 Diseases of the Proetate. 104 Diseases of the Uterus 112 Dvarian Cysts and Other Ovarian Tumors. 113 Accidents of Pregnancy. 116 Puerperal Metroperitonitis. 120 Puerperal Metroperitonitis. 120 Puerperal Albuminuria and Eclampsia. 121 Puerperal Phlegmasia Alba Dolens. 122 Erysipelas. 125 Angrene. 126 Anthrax Carbuncle. 127 Phlegmon. Ac. Abscess. 128 Other Diseases of the Skin and Adnexa. 129 Puerperal Diseases of the Joints. 134 Busiformations. 137 Congenital Debility Icterus and Sclerema. 138 Want of Care. 139 Uther Diseases Peculiar to Infancy. 140 enile Debility. 141 Enile Debility. 141 Enile Debility. 141 Surns by Fire. 146 Accidental Drowning. 148 Accidental Drowning. 148 Dropsy. 155 Exhaustion-Cachexia. 153 Uther External Violence. 152 Exhaustion-Cachexia. 153 Dropsy. 155 Engly Curding Instruments. 159 Uther Totals. 159 Death-rate 16.05	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Donter Gue to Gitter
Hernia and Intestinal Obstructions. 86	_	_	<u> </u>				-	1		 1	1	-
Other Diseases of the Intestines	i	i i	2	· i							ī	Ü
Sirrhosis of the Liver								2	11		1	
ther Diseases of the Liver92	1	5				1	'		1	1	٠.,	
nflammatory Peritonitis (Non-Puerperal)					2		2	· • i	2		1	
ppendicitis95						1	1			. :	٠.:	
cute Nephritis96		]		٠٠:	٠٠:	::	· <u>-</u> 1	٠., '	ا و ۱۰	1	1	
right's Disease97			3	1	1	2	7	2	1	7	z	
ther Diseases of the Kidneys and Adnexa 100	1							• • •	11	1	• •	
iseases of the Prostate	• • •	• • • •	• • •	• • •		• •		• •	• •		• •	
ther Diseases of the Uterus	• • • •	• • •	• • • •	• • •	• • •		• • !	• •	••	• •	• • •	
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perperal Metroperitonitis 120	• • • •	• • •			• • •	!				· i	-1	•
uerneral Albuminuria and Folamoria 121	• • • •			• • • • !	••••		· i	· i !	2	*	· il	•
uerperal Phlegmasia Alba Dolens 122	• • • •						i		~,		î	•
rysipelas125		2						!				
angrene						1	1.					
nthrax Carbuncle				!		!				1		
hlegmon. Ac. Abscess128		1		!				٠.			1	
ther Diseases of the Skin and Adnexa 129 F				i			1					
otts' Disease		[		1	1		:				٠.	
ther Diseases of the Joints		· · <u>·</u>					:	٠.,			٠٠	
alformations	_3	.2									$\cdot \cdot  $	
ongenital Debility Icterus and Scierema138	21	45	4	• • •	• • •	• •			• •		٠٠	
ther Diseases Possilies to Informed	7	20	• • •	• • •	• • •	• •		• • •	• •	•••	• •	
onila Dahility 141	J	U	••••	• • • •	• • •	!	• • ;	٠.,		!	• •	
By Poison	• • •			• • •				· i				
By Firearms D	• • • •		• • • •	• • •				-	9		• • •	
By Cutting Instruments. 145 E									ī	1	: :	
By Drowning								:	ī			
actures		!		1		1	!					
ther Accidental Injuries			3	1	2	1	4	3	2	51	1	
urns by Fire		!	2	2	1,					1		
unstroke and Freezing147	1	1				٠.		1		1	!	
ocidental Drowning148				2		3	1		1	1	1	
ther Accidental Poisoning			;			٠.	ا ن	.:		••	٠.	
The External Violence	ار. ۱	1	,	• • •	• • •	٠.	Z,	1			2	
Anamenton-Cachexia	1		;	• • •	• • •	٠;	• •	• •			1	
mammatory rever	٠,	- • • '	1	• • •	• • •	1	• •	• •	1	• •	• •	
nhyvia-Cyanosis 4 50			• • • • !	• • • •	• • • •	• • ;	•••	• •	• • :	- •	• •	
ther Tumore 150	3	• • • •	•••;	• • •	• • • •	• ; ;	$\cdot \cdot  $	$\cdots$	••		۱;۱	
nknown or Not Specified Diseases	i		···iˈ	1				::				
Totals	115	001				40	-	-	-	-		
1 Otals	110	221	112	38	23	<b>4</b> U	งษ∵	JU	20	OU!	oz.	ļ

Death-rate 16.05.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

	A	GE P	ERIC	)De	١.	ļ	SE	<b>x.</b>	COLOR.				NA	TIT	TT							OCIA		•
Futy to mty-nve.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Hungara	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
1	•••	 2 1 1		-  -	-	<u> </u>	<u></u>				1	<u></u> .	-	1	!_ ·•,•	_¦- · ·	-		-	4		 8 2 3	1	1
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•					::		2			6 1 5			i					i			3		$ \cdot\cdot $	•
i		1	12				4	3 37	12	. 70				1				i		3 45	12	· · · · · · · · · · · · · · · · · · ·	2	
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•	• • •	2	8	12	2		12	12		20		1	1	2	1:	.1.			••	6	•••	18	i	
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$\dot{2}_{i}^{ }$	·	··· <u>·</u>			1::	::	28	···ė	3 2	26	• • •	:::	4	3 <sub>1</sub>		.'	· · ·	i	• • •	iė	14	<u>2</u>	٠	3
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B	57	133	112	48		_2	655	626	154	1102	-	27 (	31 4	17	- 1	1 (		26	6	425	633	211	12	12

TABLE 57.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

•				AG	E P	ERI	OD	в.				_
DEATHS IN DOVER	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	٠ij-	Į,	Forty-five to fifty.
Typhoid Fever1							_	_		-,	i	_
Distribution of Community				٠٠:		. :	1	١٠٠	٠.	1		٠.
Diphtheria and Croup 8 Pyæmia Septicæmia. 14		!	1	1	Z		i - •	١٠٠	.:			٠.
Intermittant Fever						. • '			1	• •	• •	٠.
Intermittant rever	1	٠٠, ٔ	• • •				<u>٠ :</u>				1:1	٠.
Of the Lungs. 22 A Of Other Organs. E Alcoholism (Acute or Chronic) 34		2,					1	1			1	٠.
Of Other Organs		:	'	٠			٠.				• •	٠.
Alcoholism (Acute or Unronic)			٠٠:					i	• •			٠.
Simple Meningitis		3,	1		<b>.</b>		١					٠.
Cerebral Hemorrhage and Congestion42		١								!		٠.
		· · · · ,		١			١			• •		٠.
Convulsions of Infants49		;	2								1	٠.
Encocarditis								1				1
Organic Diseases of the Heart57		1	1		. 1	1	1	i - •	1			٠.
Acute Bronchitis69		!		. 1	·		١		[		l - i	٠.
Broncho-Pneumonia71				1			۱	١	l I			٠.
Pneumonia72		2			1		١	1				2
Other Diseases of the Respiratory System 77 B		ī					١			}		٠.
Infantile Diarrhœa, Atherpsia		2						i	١١	١ ١	١ [	
Hernia and Intestinal Obstructions									۱۰۰			٠.
												٠.
		]					1			1	!	٠.
		;					١			]	:	1
						١			١			٠.
Puerperal Sepcæmia		1								1		٠.
Puerperal Albuminuria and Eclampsia121								1				
Erysipelas						'	١	١	l	[		
Malformations	1			i		!	١	١		١ ا		
Congenital Debility, Icterus and Sclerema	5			ļ			١		١			٠.
Want of Care	1	۱ ۱	. <b></b>				١	١	l i	i I		
						٠		1	۱ ا	1		
Burns by Fire											.	
Sunstroke and Freezing						١			[ · · ]	۱ ا	] .	
Accidental Drowning148								1	1	]	] .	٠.
Other Accidental Poisoning			1						1	۱ ا	] .	
Other External Violence		!					١				] .	
		—	—				!—	<u> </u>	-			_
		13	10		4					3		

Death rate 13.87.

# IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

	AG	E P	ERI	ЮЪ	в.		SE	х.	COLOR.				Þ	TA	ıvı	TY.							OCI.		
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Itaiy,	Seatland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals,
1	i	3 3 2 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1			1 1 2 3 1 1 1 2 2 1 1 2 2 1 1 2 2	24 41 11 41 11 22 22 11 37 22 11 11 11 11 11 11 11 11 11 11 11 11	1	11 11 11 11 15 5 11 11 12 2 11 12 2 11 12 2 11 12 2 11 11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	1	i				1		1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15 22 33 44 22 44 55 11 21 11 55 12 21	1 2 2	i	
5	···i	9	6	2	::  -	     1	1 1 40	50	1	79	<u> </u>	 	 2	· · · · · 1	· · · · · · · · · · · · · · · · · · ·	::  -:	<u>::</u> !	::  	· · ·	· ·	$\frac{1}{1}$	1  48	· · · · · · · · · · · · · · · · · · ·	 	90

TABLE 58.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

	_			AG	B PI	CRI	OD8					
DEATHS IN EAST ORANGE	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Typhoid Fever   1			<u>2</u>	···ż			i ·	·i		1		
Diphtheria and Croup	• • • •		2		· · i	$\cdot \cdot  $			• •		• •	• •
Influenza 9	:::	:::	ī	:::	*	::		::				::
Pyæmia and Septicæmia14			اي			i		ان.			1	
Tuberculosis Of the Lungs	$\cdots \mid$	:	1	• • •	2	2	4	2	1	4	2	2
Of the Meninges	۱۰۰۰	- 1	-	• • •	• • • •	••	• •		• •	• •	· ;	٠;
Of the Intestines and Rectum	:::											
Of the Breast E												i
Others	٠٠٠							٠٠	٠.	٠.		١
A namia Chlorogia	٠٠;١	• • •	• • •	• • •		• •	• •	$\cdots$	• •	• •	$\cdot \cdot  $	٠.
Alcoholism (Acute or Chronic) 34	-		• • • •	• • •					• •	• • •	i	٠.
Simple Meningitis		2	· i						i	2		I : :
Cerebral Hemorrhage and Congestion42	1,			٠			1	٠٠				
Softening of the Brain	• • •			• • • '	• • •			$\cdot \cdot  $				1
Canaral Paralysis 45	•••	• • • •	•••	• • • •	• • • •			• •		• •	• •	٠.
Convulsions of Infants 49	• 2	· il	• • •	:::i		•••		::		• •		
Endocarditis56				;		i						
Organic Diseases of the Heart57			2		1			• •	1	1	1	1
Angina Pectoris	• • •	• • •	•••	• • • •	• • •	• •		• •	$\cdot \cdot  $	• •	• •	٠.
Embolism	•••	• • • •	• • • •	• • •		• • •		::!	٠٠¦		• • •	٠.
Other Diseases of the Circulatory System		:::						::		::		::
Acute Bronchitis	i		i	1								: <b>:</b>
Chronic Bronchitis								٠.,	]			١
Broncho-Pneumonia	• • •	2	1	• • • .		٠;	.:	$\cdots$	• •		.:	٠:
Other Diseases of the Passivetory System 77 R	··•i	Z	3	• • • •	• • • •	1	1	٠ <u>٠</u>		• •	1	
Other Diseases of the Stomach (Cancer Excepted . 81	1		···ż	i								::
Infantile Diarrhœa, Athrepsia		3	1					]				
Hernia and Intestinal Obstructions		1		• • • •			٠. إ	$\cdot \cdot  $			1	٠.
Appendicities (Non-Puerperal) 93	• • •	٠.	٠ ۵	•••	• • •	• •	• •	٠;١	- : !	• •	• •	٠.
Acute Nephritis 96		• • •		-				ĩ:			• • •	
Bright's Disease		i					i	1			2	2
Puerperal Albuminuria and Eclampsia							1	1				
Other Diseases of Bones	٠٠;	:	· · •	1					$\cdot \cdot  $		٠.	٠.
General Debility Istomic and Salarama 138	4	7	• • •		• • • •	• •	• •	•••	• •	• •	• •	٠.
Want of Care.	í		• • •			•	٠.			•••	٠.	
Senile Debility							· .					::
Suicide. By Poison ( 141 ) A								٠.			٠.	
Other Assidental Injuries	• • •	• • •	· • •	• • • •				$\cdot \cdot  $	$\cdot \cdot  $	$ \cdot\cdot $	٠.	۱۰۰
Accidental Drowning 148	:::	: : :	· · ;		• • • •		• •			$ \cdot \cdot $	• •	
Inhalation of Noxious Gases (Suicide excepted) 150	i					;:	i	::	::I	::	::	1::
Abdominal Tumor			i									
Other Tumors								٠.				١
Of the Breast   E   G		٠٠.			• • •	$ \cdot \cdot $		$\cdot \cdot  $	$\cdot \cdot  $		• •	_1
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Totals	16	12	92	5 '	4	4	10	9	41	R	10	110

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

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Fifty to nity-nve.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
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#### TABLE 59.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

				AG	E P	ERI	ODE				<u> </u>	
DEATHS IN ELIZABETH.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Typhoid Fever	1 1	1 8 4	11647711	1 8 2 1 1	1 1	1 13 13 13 1	1 6	1 1 12  1 1 12 	15 1	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11	1
Organic Diseases of Arteries, Atheroma, Aneurism, etc.         56           Embolism.         66           Other Diseases of the Circulatory System.         66           Diseases of the Larynx and Thyroid Body.         68           Acute Bronchitis.         72           Chronic Bronchitis.         72           Broncho-Pneumonia.         73           Pleurisy.         72           Congestion and Apoplexy of Lungs.         74           Gangrene of Lungs.         74           Asthma.         74           Pulmonary Emphysema.         77           Other Diseases of the Respiratory System.         80           Ulcer of Stomach.         80           Other Diseases of Stomach (Cancer Excepted)         81           Infantle Diarrhœa. Athrepsia.         85           Diarrhœa and Enteritis.         85           Dysentery.         89           Hernia and Intestinal Obstructions.         87           Other Diseases of Anus Fecal Fistulas.         87           Cirrhosis of the Liver.         89	3 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 9 9 1 1 1	111 9	1 5	1	١	5	5	i 6	7	51	

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.—Continued.

AGE	PER	IOD	3.		SE	ж.	COLOR.				1	TAF	IVI	TY.							OCL		
Fifty to fifty-five. Fifty-five to sixty.	Sixty to seventy.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Total.
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### TABLE 59.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR -ENDING

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				AG	E P	ERI	ODE	۱. _		
DEATHS IN ELIZABETH.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty. Forty to forty-five. Forty-five to fifty.
Other Diseases of the Liver				_	<del></del> -					1
Inflammatory Peritonitis (Non-Puerperal93		1		1						2 2.
Appendicitis			•••	•••;					٠, ٠	
Bright's Disease	· • • •						. 3	2		3 3
Diseases of the Bladder									• •	
Others							1			
Accidents of Pregnancy116	2							1	٠	
Puerperal Septicæmia		· • •	· • •			٠.	• •	2	2	1
Puerperal Metroperitonitis			• • •		• • •	• •	٠.	1	• • •	
Ervsinelas 125	• • • •		• • •		• • •	• •	. 3	٠.	•:	1 . i .
Puerperal Albuminuria and Eclampsia 121 Erysipelas 125 Other Diseases of the Skin and	: •••	•	• • •		•••	• •		٠.	•••	
Adnexa (Cancer Excepted) 129 F		1 .	. 1	1						
Malformations	2	'		1			٠			
Want of Care 139 Senile Debility 141	5	1	• • •	- • •		1	• •	- <b>-</b> ,	,	<b></b> .
Senile Debility141	. • • •				• • •	١	٠.	٠٠,		
Seminary Control   Contr	· · · ·	! • • • !	• • •			i۰۰				• • • • •
By Strangulation	• • •		· · ·			1::				
By Firearms.	·	1				1::				i.
Fractures143					l	l	1			. 1.
Other Accidental Indiries				1 Z		1	ı D		. Z:	2 3
Burns by Fire		¦ · · · :	6	1	1	1	1 1	1	۱ Z'.	, .
Sunstroke and Freezing		1	¦ • • •		· · :	1		ı٠٠i	$ \cdot\cdot \cdot$	• • • • •
Accidental Drowning					1			. ;	-	· · Z
Other Accidental Poisoning	• • • •					1:	· i	1	۱۰۰۱۰	i
Other External Violence 152				i	1:::	1.	l. *	. *	il.	
Asphyxia-Cyanosia	2	1		l	l		i			
Abdominal Tumor	<b>'1</b>			١	ļ					
Unknown or Not Specified Diseases161	. 1		· • •	·						1 1
Totals	7=	150	-00	20	1,,	9F	25	20	<u></u>	
TOTALIS.	175	198	82	<u> 30</u>	1 11	20	(55)	<u>38</u>	41 4	D) 44 2

Death-rate 16.55.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

	AGF	PI	ERI	ODI	3.		SE	x.	COLOR.					NAT	IVI:	Y.				1		CON	DI' I	L ON.	
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
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TABLE 60.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES FOR YEAR ENDING

	- :	=-			_=			_		==	=
				AG	E P1	CRIC	DE		_		
DEATHS IN ENGLEWOOD.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty-five to fifty.
Others         G           Rheumatism         26           Leukemia         31           Anemia Chlorosis         32           Alcoholism (Acute or Chronic)         34           Cerebral Hemorrhage and Congestion         42           Softening of the Brain         43           General Paralysis         45           Pericarditis         55           Endocarditis         56           Organic Diseases of the Heart         57           Diseases of Arteries, Atheroma, Aneurism, etc         59           Other Diseases of the Circulatory System         68           Broncho-Pneumonia         71           Penumonia         72           Other Diseases of Stomach (Cancer excepted)         81           Infantile Diarrhœa, Athrepsia         82           Diarrhœa and Enteritis         83           Other Diseases of the Liver         92           Inflammatory Peritonitis (Non-Puerperal)         93           Acute Nephritis         93		1 3	i	i	i	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1	1	1
Phlegmon. Acute Abscess. 128 Potts' Disease 130 Congenital Debility Icterus and Sclerema 138 Senile Debility . 141	5	2 				1	1	3	1 3 1	i .	7 .8

Death-rate 15.86.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEEMBER 31ST, 1903.

	AGI	E PI	RI	OD6		_	8E	<b>x.</b>	COLOR.	İ		-		NAT	141	IT.						CO	OCIA	ION.	
ion fam ar fam t	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless dengrated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	F
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TABLE 61.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

				AG	E P	ERIC	ODE	3. 				
DEATHS IN GLOUCESTER CITY.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
yphoid Fever	33	1 1 1 1 1 6 	i i i i i i i i i i i i i i i i i i i	1 1	1	i i i	.1		1	i i i i i i i i i i i i i i i i i i i	i i	j

Death rate 17.85.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

	AGE	P)	ERI	ODE	3.		SE.	ж.	COLOR.				N	A I'	IVI	Γ¥						co	NDIT	AL ION.	
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
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TABLE 62.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

				AG	E P	ERI	ODE	J.				_
DEATHS IN HACKENSACK.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	
Cyphoid Fever			<u> </u>			_	-	2	-	1	_	-
Vhooping Cough			2						اد ٠			ŀ
Aphtheria and Croup8	. <b></b>	1	4	1	!				2		• •	
nnuenza					• • •			٠:		• •	••	
ntermittent Faver	• • •		• • •	•••	• • •	!		-	ان:	••	•••	•
uberculosis of the Lungs.	• • •				• • • •		· i	. 3	. •	i	2	
Of Other Organs	••••			• • • •		i i		. "		. 1		
Of the Stomach and Liver B	· • •		l. <b></b> .				::1		::1	::1		ı.
6 Of the Breast 25 E												١.
Others   G	'		1	!	ا ا	۱ ا			1			١.
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lcoholism (Acute or Chronic)	• • •	٠٠.	:	٠٠:		ا بر ۱		• •	٠٠		• •	
mple meningitis	• • •	2	1	2	• • • •	1	• •	• •	• •	.:	• •	l
archrol Hamowhere and Congestion	• • •	• • •		· · · ·	• • •	• •	• •	• •	••	-	• •	I
aralysis Without Indicated Cause	• • •		• • • •	• • • •	• • •	• •		• •	• •		• •	l
eneral Paralysis 45	• • •			• • • •	••••		•	•••			: i	i.
onvulsions of Infants	·	• 2	· · i	• • • •			: :					Ľ
etanus		ī	l						$\square$	Ш		L
rganic Diseases of the Heart	1									1		ı
ngina Pectoris						٠.,١	. !		!		ا ا	ļ٠
iseases of the Arteries, Atheroma, Aneurism, etc. 59	• • •			• • •	!	1	• •	1	٠٠		• •	ŀ
mnousm60	• • •	• • •		• • •	۱۰۰۰;	• •	• •	• •	••		٠٠	ŀ
roncho-rheumonia71	• • •	1		• • • .	• • • ;	• •	٠.	••	• •	••	ا: ا	Ĺ
operation and Apoplary of Lungs	• • •	1	2	• • •	• • • •	• •		•••	• •	•••	-	Ĺ
ther Diseases of the Respiratory System 77 R	• • •	• • •		• • • •				• •	٠٠١		••	ľ
ther Diseases of Stomach (Cancer Excepted)	• • •	i		• • •			::1	:				ı.
nfantile Diarrhœa, Anthrepsia82		3		'			::1					
iarrhœa and Enteritis83				!				٠.				
ysentery84	• • • •						٠٠/	٠٠	٠٠,		••	•
irrhosis of the Liver90	• • •	• • •	• • •	}			٠٠	ا: ١	• •	.:1	• •	•
miammatory Peritonitis (Non-Puerperal)93	• • •	• • •	• • •	• • •	• • •	• •	• •	1	• • •	1	••	•
right's Disease	•••	•••	• • •	•••	• • • •	••	• •	••	٠;١		••	•
regressive Locomotor Ataxia. 40 erebral Hemorrhage and Congestion. 42 aralysis Without Indicated Cause. 44 eneral Paralysis 55 onvulsions of Infants 55 etanus. 56 rganic Diseases of the Heart 57 rgina Pectoris. 57 niseases of the Arteries, Atheroma, Aneurism, etc. 59 mbolism. 60 roncho-Pneumonia. 71 neumonia. 77 neumonia. 77 neumonia. 77 ther Diseases of the Respiratory System. 77 bther Diseases of Stomach (Cancer Excepted) 81 nfantile Diserrhea, Anthrepsia. 82 iarrhoa and Enteritis. 83 iyesntery. 84 irrhosis of the Liver. 90 nflammatory Peritonitis (Non-Puerperal) 83 cute Nephritis. 96 right's Disease. 97 iseases of the Bladder. 102 uerperal Septicæmia. 119 A eurperal Albuminuria and Eclampsia. 121 angrene. 126 cancer excepted. 129 Fongenital Debility, Icterus and Selerema. 138	••••	•••	• • •	- 1			• • •	•••	-1			_
uerperal Septicemia	:::							i	::1	i		:
eurperal Albuminuria and Eclampsia									::1	1		
angrene							٠.١	٠. ا	[		1	
ther Diseases of the Skin and Adnexia	1				!	- 1	- 1		- }	- 1	- 1	
Cancer excepted	٠٠.	• • •	1		• • •	٠٠١	٠٠/	٠.	٠٠١	• •	••	•
ongenital Debility, Icterus and Scierema188	8	7	1	• • • •	• • •	• •	٠٠	• •	٠٠١	••	••	•
Abor Discoso Bossline to Total	•••	1	• • • •	• • •	• • • •	••	• •	٠٠	• • [	•• •	••	•
enile Debility 141	-	••••	••••	• • • •	••••	••	••	••	$\cdot \cdot  $	•••	••	•
ther Accidental Injuries 145	۱۰۰۰	•••		• • • •	∵;	••	٠,	٠il	٠٠	•••	il	•
urns by Fire 148 A		:::	:::1		_ •	: 1	-	-1			-1	•
unstroke and Freezing. 147	:::	:::		:::	:::	::			::			:
ccidental Drowning148						::1					1	
xhaustion-Cachexia				!								
ther Diseases of the Skin and Adnexia Cancer excepted				٠ا	]	٠.,	1	٠.,	٠.١	1	1	•
Totals	_			4	1	2	4		-	-	-	1

Death rate 16.39.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

	AG	E PI	ERf	OD	5.		SE	ix.	COLOR.				1	NAT	riv:	LT Y						CON	OCIA	L ON.	
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Total.
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2	6	21	23	10	3	3	88	88	15	135	1	1	12	9	9	0	0	1	4	4	51	77	41	7	17

## TABLE 63.—TABULATION OF DEATHS FRON THE CLASSIFIED DISEASES THT YEAR ENDING

	=			=-				-	-	INI		
•				AG	E P	ERI	ODE	3.				
DEATHS IN HARRISON.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Typhoid Fever	3	4	2  8  1 4 1 1	1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	9	3	1		j
Bright's Disease   97	  i		:::	i		1 	· · · · · · · · · · · · · · · · · · ·	i 	3 	···	i	
Totals	18	32	26	7	2	11	7	19	10	12	12	١.

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AG	E P	efi	OD	3.		SE	x.	COLOR.					NAT	IVI	T¥.						BOCI	AL FION	
Effty_to_inty-hve. Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Other Pension	Not stated	Married.	Single.	Widowed.	Not stated.	Total.
1 1 1 1 1 1 1 1 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	2 · · · · · · · · · · · · · · · · · · ·	1	1			3 .122213111 .65 .61 .421312712 .4114 .1123222226131	21131 .0 .11116215 .295221 .1213331 .15116 .1	i	122 13 11 1 124 1 121 124 1 192	· · · · · · · · · · · · · · · · · · ·		1 1 1 1 2 2	1	1	3			1	11 11 11 11 11 11 11 11 11 11 11 11 11	133 133 288 3 11 122 2 2 2 4 2 2 2 2 4 3 1 192 2 192 2 12 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1 2 2 1 1 1 1 3 3 3 1 1 1 1 2 2 3 3 3 1 1 1 1	22	24 44 11 11 11 12 12 13 13 14 18 18 25 54 44 47 77 11 11 19 22 22 66 11 33 33

## TABLE 64.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

				AG	E P	ERI	ODE	s				
DEATHS IN HOBOKEN.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	
yphoid Fever					1	_	_	3	1	1		-  -
ypnoid rever	•••	•••	···;	··i	1		• •	• •	$\cdot \cdot  $	• •	٠.	1
iphtheria and Croup		2	29	22		::						1.
yæmia and Septicæmia14	: : :	:::	· • •		··i	6.		i	2		• •	1:
termittent Fever	• • •	• • •	··· ;	1 	٠٠.	À	20	20	20	1 22	ńέ	1
Of the Lungs. Of the Meninges. Of the Peritoneum. Of Other Organs. General.  A B C C E F		i	••;			.:	2			••		ľ
Of the Meninges. Of the Peritoneum. Of Other Organs.  B 22 C	:::					1	i	i			• •	
General F	• • •	1		• • • •	• • •			٠.	••,	• • •	• •	l
/philis						i.			• • •		i	
Of the Intestines and Rectum. Of the Female Genital Organs. Others. G	· · ·			:::	:::	<u>ا::</u> ٔ	i	· • '	::	i	i	١
Of the Breast E	• • •					j					٠;	
Others	· · ·				:::	::	::!				1	
iabetes	· • •	• • •			• • •	<u>ن</u> ٠٠.	. • • }		2		٠.	1
nemia Chlorosis	• • •				·	<b> </b>					::	1
nemia Chlorosis       32         teoholism (Acute or Chronic)       34         mple Meningitis       39         rogressive Locomotor Ataxia       40         perbral Hemorrhage and Congestion       42         ftening of the Brain       43         aralysis Without Indicated Cause       44         eneral Paralysis       46         ther Forms of Insanity       46         pilepsy       47         on-Puerperal Eclampsia       48         novulsions of Infants       49         ther Diseases of the Nervous System       52 Cl         ericarditis       56         ndocarditis       56         rganic Diseases of the Heart       57         ngina Pectoris       58	··.	19	i i i i i i i i i i i i i i i i i i i	• 2	· i	i		1	i	1 2	• 4	
rogressive Locomotor Ataxia40	•••				ļ		• •	. ,	••	٠.	٠.	
of the Brain		• • • • • • • • • • • • • • • • • • • •		:::	:::	::	::		• •			1
aralysis Without Indicated Cause	• • •	•••		• • •	· • ·		!	· ; [	1	1	٠.	l
ther Forms of Insanity		ˈ i			:::	1:::	٠.,		::			l
on-Puerperal Eclampsia48	···ż	· · · · · · · · · · · · · · · · · · ·			:::	'	ا ا		• • !	• •	• •	İ
onvulsions of Infants	11	16	2	• • •			'		٠;	٠.	• •	l
ericarditis	: : :	• • •		• • • •		٠	• • •	ا::ا		1	• •	i
ndocarditis	··i	• • •	1		1	1 2	1 2	· ; !	• •	3	1	
ngina Pectoris58		١					ا ا	۱. آ			.:	1
mbolism	· · ·	. z		:::		::	ا::ا	:::I	::			
emorrhage	٠٠.		٠.،			· • •			٠.	• •	i	
cute Bronchitis	: : :	4	2			۱::I			::	::		
hronic Bronchitis	• • •	7	∵;	··i	١	• •	• • •		• •		• •	
neumonia72	5	18	18	5	2	1	4	10	7	4	9	j
ongestion and Apoplexy of Lungs	i			:::	:::	• : :		ا::،		:::ˈ		1
ericarditis. 55 Inganic Diseases of the Heart 57 Ingina Pectoris. 58 Iseases of Arteries, Atheroma, Aneurism, etc. 59 Imbolism 60 Imbolism 70 Imbolism 70 Imbolism 71 Imbolism 71 Imbolism 72 Imbolism 73 Imbolism 74 Imbolism 73 Imbolism 74 Imbolism 75 Imbolism 75 Imbolism 75 Imbolism 76 Imbolism						, <b></b>	!		$\cdot \cdot  $	٠;	1	1
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ther Diseases of the Respiratory System.   B	2	1	···i		2	i	2		::	1	1	1
nfantile Diarrhœa, Athrepsia	5	39	7	2	2		::	::		<u></u>	. ;	1
narrnœa and Enteriors		• • • •	: : :		:::	• •	::	::I	• •	::	1	1
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=	AG	E P	ERI	OD	9.		81	x.	COLOR.				1	NATI	VI	T.			_				OCL		
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
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TABLE 64.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

DEATHS IN HOBOKEN.						EP	ERI	OD				=	<u></u>
Other Diseases of the Liver.   92		_								_	<del>, ,</del>		_
Diseases of the Bladder.   102	DEATHS IN HOBOKEN.	Under one month.	Under one year.	One to five.			!						Forty-five to fifty.
Diseases of the Bladder	Other Diseases of the Liver 92											1	• •
Diseases of the Bladder.   102	Innammatory Peritonitis (Non-Puerperal)93		1		;	1	.:	.4	1	$\cdot \cdot  $		• •	1
Diseases of the Bladder. 102 Other Diseases of the Uterus. 112 Accidents of Pregnancy. 116 Puerperal Septicæmia. 119 A 2 1 Puerperal Septicæmia. 119 A 2 1 Puerperal Albuminuria and Eclampsia. 125 2 1 1 1 1 1 Gangrene. 126		:	• • • •		1	• • ;	1	-11		• •	::	••	٠;
Diseases of the Bladder. 102 Other Diseases of the Uterus. 112 Accidents of Pregnancy. 116 Puerperal Septicæmia. 119 A 2 1 Puerperal Septicæmia. 119 A 2 1 Puerperal Albuminuria and Eclampsia. 125 2 1 1 1 1 1 Gangrene. 126		- 1	1		-	1	· ;	2	5		1	8.1	
Diseases of the Bladder.   102	Renal Calculus. 99		1	•			-1		-	9	-	1	1.1
Accidents of Pregnancy.	Diseases of the Bladder102		'										· •
Eryspelas   126   2	Other Diseases of the Uterus						1			1		[	
Cangene   126	Accidents of Pregnancy116	6						1	٠.	2		1 .	
Cangene   126	Puerperal Septicæmia						!	ا:،	2	ا: ٠		· •   •	
Anthrax Carbunele.   127	Furningles 125	٠٠.	ان: ۱	• • •	• • •	• • • •	.:	3	• •	1	• •	٠;١٠	•
Anthrax Carbunele.   127	Gangrene 128	Z	1				-			· il	• •	4	•
Other Diseases of the Skin and Adnexa (Cancer excepted).         129 F         1           Potts' Disease.         130         1           Diseases of the Joints.         134 B         1           Malformations.         137 8 2         2           Congenital Debility Icterus and Sclerema.         138 26 23 3         3           Want of Care.         139 3 2         2           Other Diseases Peculiar to Infancy.         140 2 1         3           Senile Debility.         141         2         2 2 2 1           By Poison.         A         2 2 2 1         2 2 2 1           By Strangulation.         C         0         1 1         1           By Streams.         D         1 1         1         1           Fractures.         143         2 1 1 1 5 5 1 4 5         1 5         1 5           Sunstroke and Freesing.         148 A         1 2 1         1         1           Sunstroke and Freesing.         148 A         1 2 1         1         1           Accidental Drowning.         148 A         1 2 1         1         1           Anhalation of Noxious Gases (Suicide excepted).         150 1 1         1         1           Inflammatory Fever.         154 B	Anthrax Carbuncle. 127	• • •					••			-1		:: :	'n
Potts	Other Diseases of the Skin and Adnexa	•••								•			•
Diseases of the Joints.	(Cancer excepted)		1;									.	
Malformations	Potts' Disease				!	!	]						1
Senile Debility   Senile Deb	Diseases of the Joints		ان ٠٠٠			• • •	1					٠٠.	
Senile Debility   Senile Deb	Congenital Debility Interns and Salaroma 138	26	22		• • • •							• •   •	• •
Senile Debility   Senile Deb	Went of Core 139	20	20	٥			• • •						•
Senile Debility   Senile Deb	Other Diseases Peculiar to Infancy	2	ī	i			Ξĺ		[				
Sunstroke and Freezing. 147 1	G 1 D 1 114-											.	
Sunstroke and Freezing. 147 1	By Poison							٠.	2	2	2	11.	
Sunstroke and Freezing. 147 1	By Asphyxia		• • •	• • •			٠.	• •	• •	• •	1	1].	•
Sunstroke and Freezing. 147 1	By Fireerms			• • •		• • • •	٠.	· ;	• •		· i	٠٠ ٠	•
Sunstroke and Freezing. 147 1	Fractures 143							-		• •		::I:	•
Sunstroke and Freezing. 147 1	Other Accidental Injuries	i		:::	2	i	i	i	5	5	i	4	5
1	Burns by Fire146 A		1	!	2			[	1	1		٠٠).	
1	Sunstroke and Freezing147	٠٠٠]	1								٠.	٠٠]٠	•
Inhalation of Noxious Gases (Suicide excepted)   150	Accidental Drowning148	• • • •		• • •			4	1	4	• •	3	• •	2
Other External Violence       152       1 1       1         Inflammatory Fever       154       B       1       1         Dropsy       155       1       1       1         Asphyxia-Cyanosis       156       1       1       1       1         Other Tumors       159       1       1       1       1       1       1         Unknown or Not Specified Diseases       161       1       1       1       1       1	Type lettion of Novious Gases (Suicide excepted) 150	• • •	• • • •				.:	• •	• •	• •	• •	٠٠ ٠	·i
Dropsy.	Other External Violence. 152	:::					11	i	::		::1:		
Dropsy.	Inflammatory Fever					``i	Ĭ	Ξĺ	i		i		. :
Asphyxia-Cyanosis       156       1           Other Tumors       159             Unknown or Not Specified Diseases       161         1        1	Dropsy 155	٠١											
-	Asphyxia-Cyanosis		1				٠.		• • [	• • •	.	٠.,	
-	Other Tumors	• • •	• • •	• • • •	• • •	• • •	ا:٠	$\cdot \cdot  $	• •	• •	• •   •	٠;   ٠	
Totals	Unknown or Not Specified Diseases	• • • •	· · · ·	•••	• • • •	• • •	1	• •	· ·	<u>· · :                                 </u>	٠٠)	<u>.</u>	•
	Totals	79	165	105	47	17	26	51	59	65 (	65 7	75 E	39

Death.rate 17.79.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

-	AG	E P	ERI	ODS	3.		SEX	τ.	color.				N	ĮΤΤΑ	/FT	r.		-					OCIA OCIA		
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals
i i	···i	  2		- - - -	-:::		3 4 10	6 3 4		2 6 3 9	 		1 4 2			  i	-		 :: i	<u> </u>	1 4 	2 5 3	1  2 23	- ::	3 10 3 14
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:: :: :: ::	::: ::: ::: i	i	:: :: 12	9	`` `` `` ``		 6 31 2 2 6 6 2	1 21 3 1 17 2	i 1	1 10 50 5 3 4 1			1  5 6 3	  7 1	· · · · · · · · · · · · · · · · · · ·	4			· · · · · · · · · · · · · · · · · · ·		   4 6 3	1 10 52 5 3 3 2	i  i6		1 1 10 52 5 3 23 8 3
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··· ··· 50	1	i 116	1  63	26	3		1 1 1 649	i i 2 491	8	1 638	20	7	1  2 227	149	30	· · · · · · · · · · · · · · · · · · ·	··· ··· ··· 3	··· ··· <u>··</u> 2	1 1 	6	1 1 353	1 1 1 600	i  1	3	1 1 1 3 

TABLE 65.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

	_			AG	E PI	ERIC	OD8					_
DEATHS IN IRVINGTON.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
				1			-					
Scarlet Fever6	• • •					1		• •		!		
Diphtheria and Croup8	• • •	• • •	• • •	1		.:	٠.	.:				١.,
Tuberculosis of the Lungs	• • •	• • •	• • •	• • • •	• • •	-1	2	1	٠٠١	$ \cdot\cdot $		i • •
Tuberculosis of the Lungs	• • • •	• • •	• • •	• • •	• • •	• •	• •		. • •	••	• •	
Others	• • •	• • •	• • •	• • •	• • • •		• •		• •	• •	• •	
Dishetes 98	• • • •	• • •	• • • •	•••	• • • •		••		•••	i	• •	
Addison's Disease		• • •	• • •	•••	• • • •	• •			i	-	• •	
Cimple Maningitie	• • • •	• • •	• • •	• • • •		• •	• •	••	-		• •	
Simple Meningitis. 39 Cerebral Hemorrhage and Congestion. 42	••••	• • •	-	•••		• •		. !			•:	·• ·
Paralysis Without Indicated Cause	••••	• • •	• • • •					-		• • •	- 1	
Other Forms of Insanity	• • • •	• • •	• • •	•••			••			•••	• •	
Convenience of Infants 49	• • • •	•••	• • • •	• • • •		•••	• •				• •	
Convulsions of Infants. 49 Endocarditis 56	••••	- 1	• • •	• • • •			••!	· i			i	
Ormanic Discourse of the Heart 57			• • • •	• • • •			٠٠!	-	• •		1	-
Organic Diseases of the Heart	-1	-	• • •	••••			• • •	• •		• • :	• •	•
Other Diseases of the Circulatory System66	•••	• • • •	• • • •	• • • •			• •	•••	• • •		• •	
Acute Brenchitie 60:	• • •	•••	•••			٠٠١	• •		• •		• •	•
Acute Bronchitis. 69 Pneumonia. 72 Other Diseases of the Respiratory System. 77 B	••••	- 1	-	• • • •	••••		• • •		• •	[	• •	
Other Diseases of the Resniretory System 77 R	•••	-1	••••						· i		••	١.
Other Diseases of the Stomach (Cancer Excepted) 81	• • • •	••••	•••						*		• •-	
Infantile Diarrhœa, Athrepsia 82 Diarrhœa and Enteritis 83	• • • •		· · i				٠-١				•••	
Diarrhose and Enteritis 83	•••	١	-1		••••			٠.١		· i !	•••	
Cirrhosis of the Liver90	•••	•••			•••		٠.١	٠.١		-	•••	•
Inflammatory Peritonitis (Non-Puerperal)93								٠.١			٠i′	•
Agute Nephritis 96				1	1					i i	- 1	
Bright's Disease 97		· il				i				. 1	•	
Bright's Disease		-				î					•••	
Pott's Disease 130	- 1	- 1	- 1		- 1	11	- 1	i	- 1			
Congenital Debility, Icterus and Sclerema. 138 Other Diseases Peculiar to Infants. 140	11	3										
Other Diseases Peculiar to Infants	1	[			i							١.
Senile Debility 141		- 1	- 1		- 1	1		- 1	- 1	!		1
Suicide by Poison.   142   A By Cutting—Instruments.   147   Sunstroke and Freezing . 147 Inhalation of Noxious Gases (Suicide excepted . 159			1						!			
By Cutting—Instruments			1				! .					l.
Sunstroke and Freezing147						[	[				!	
V. L. L. L. W. M. Conne (Guinida amandad) 150							[	[				
innalation of Noxious Gases (Suicide excepted 1901.											1	
Dropsy		1	!	!	!	1.			!	1'	٠. ١	١.
Dropsy	···	11	••••	2	• • •	5	<u>:: :</u>	<u>:: </u> .	<u>:: </u>	1	···	<u>-</u>

Death rate 12.86.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

	AGE	PE	BIC	) DB			SE	x.	COLOR.				N	AT	IVI:	FY.			·	1			NDIT		
ruty to mey-nye.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Total
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4	4	13	10	9	0	1	35	47	1	58	3	1	8	4	2	0	0	0	4	2	32	35	14	1	<u></u>

## TABLE 66.—TABULATION OF DEAPHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

	-						AGE	PEI	 LIOD	3.					=
DEATHS IN JERSEY CITY.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.	Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.
Typhoid Fever		51 11 11 11 11 11 11 11 11 11 11 11 11 1	10 9 2 1 7 1 2 1	12 30 31 1 5 2 2  1 1 3 3 1 1 1 1 3 1 1 1 1 1 1 1 1 1	3 3 i 3 3 · · · · · · · · · · · · · · ·	322 322 11 11 11 11 11 11 11 11 11 11 11 11 1	755	5  1	1	2	1	30 31 33 11 33 11 18  22 14  31 12  31 31 32  31 31 32  31 31 31 31 31 31 31 31 31 31 31 31 31	  1 3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2
Phlebitis and Other Diseases of the Veins	 1	  i	i i		::	  i		1	 i	• • • •	•••	•••		····i	 
Circulatory System 66 Diseases of the Larynx and Thyroid Body. 68 Acute Bronchitis 69	2	· · · · · · · · · · · · · · · · · · ·	 8 14		··· ·· <u>·</u>	 <u>ż</u>	 1 2	3	1	···i		1	···i	···i	 <u>.</u> 8

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GE	PEI	RIO	D8.	81	ex.	COLOR.				N	ATI	/IT	r.							DITI		
Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
	111111111111111111111111111111111111111	1		222 11 7 7 7 522 2788 9 9 2 2 278 2 2 2 19 4 4 2 2 2 2 2 19 4 4 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14	2 2 20 2 1 2 2 1 2 2 1 4 4 3 6 6 1 1	181 11 13 13 15 16 11 11 11 11 11 11 11 11 11 11 11 11	112	2	3 2 2 388 2 2 4 5 4 3 3 2 2 1 4 3 3 2 4 5 4 3 3 2 4 5 4 3 3 2 4 5 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	4  1 4 3 78 1	2		11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 20 1 6 2 1 1 1 1 1 1 10	· · · · · · · · · · · · · · · · · · ·	15	1991 1113 1272 1107 100 100 1113 1122 1122 1133 11 1125 1125 1125 1	2	1 2 2 2 3 1 1 	366 11 12 12 12 12 12 12 12 12 12 12 12 12
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### TABLE 66.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

.							AGE	PEI	RIODI	3.					=
DEATHS IN JERSEY CITY.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.	Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.
Chronic Bronchitis.         .70           Broncho-Pneumonia.         .71           Pneumonia.         .72           Pleurisy.         .73           Cong'n & Apoplexy of Lungs.         .74           Asthma.         .76	1 6 5	43 52 1 3	17 70 1	7 17 1	31	 8 1	1 2 12	18 3	1 24 2	3 25 2	3 27 1 1 2	23 1	2 3 27 1 1	5 2 24 1 1	١
Pneumonia	:::			:::	::				3	2  1	· · · · · · · · · · · · · · · · · · ·	1	1	4	4  2
Other Diseases of Stomach (Cancer Excepted). Infantile Diarrheea, Athrepsia 82 Diarrheea and Enteritis 83 Dysentery 84 Hernia and Intest'l Obstruction 86 Other Dise's of the Intestines. 87 Ac. Yellow Atrophy of the Liver 88 Cirrhosis of the Liver 90 Other Diseases of the Liver 92 Inflammastory Peritonitis	18 1  2	165 5 3 4	57 1 5	2 1 	i i ···	" 1 …	1 2 2	7 1 1	3 2	1 	3  4 1	3 1 	3 2 6 2	 2 1 1 	7
Other Diseases of the Liver	i 	1 2 2	1  4	1 4 3	2 1 3 1	6 1 2 2	 2  6	2 4 8	 3 1 12 9	10 4 16	 4  7 18	1 1 3 16	 	1 2  24	1 7
Other Diseases of the Kidneys and Adneya			· • •		::					1 2	2 2	··i			6
Diseases of the Urethra, Stricture, Abscess, etc						i		···i			i				1 
Ovarian Tumors. 113 Accidents of Pregnancy 116 Puerperal Hemorrhage. 117 Other Accidents of Labor. 118 Puerperal Septicæmia. 119 Ruerperal Phlebitis. 119 B	9 1	i				···· •··· •••	1 	 2 1  3	··· 2 ···	 3	i 2		1		 
Other Diseases of the Uteru	i 	 3 	1 1  1			· 1	 	··· ··i	1 1 	 2	i	i	 1 1	 2 	 1 5 1
Fott's Disease. 130 Cold Absc. Symptomatic Absc. 131 Other Diseases of Bones 132 Malformations 187 Congenital Debility, Icterus and Sclerema 138	13 112	5 101	23	i 		1  i					i		• • • •		
Want of Care	119	15 2			<u> ::</u>	:::	:::		:::	:::	:::	<u>:::</u>	• • •	<u>:::</u>	<u> ::</u>

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.—Continued.

AGE	PEI	310	DB.	8E	<b>x</b> .	COI OR.				N	ITA	VIT	r.							DITI		
Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Total.
10 4 30 1	1 3 8 	1		13 46 247 10 6 3	17 48 169 7 5	5 12	6 79 261 11 8 2	3 3 11 1	-  ::  ::	2 3 25 2 	14 5 69 1 3	3 18 1	 5 1 	- i ::	<del>-</del> : : : : :	1 4 17	1 9 	8 7 115 8 1	5 68 212 8 6	14 10 74 1 3 2	3 9 15	30 94 416 17 11
i		• •		14 1 3	6 4		8 			3 1 	<u>.</u> 3		 	• •	• •			10 1 1	6 3	4 3		20 1 7
4 9 5 	3 1 	i i ::		10 33 22 6 15 1 1 39	20 109 34 12 24 5	1 1	18 238 22 12 14 4 1 21	1 'i 'i ':	:: :: :: :2	3 1 8  5  9	23 3 12 2 11 3	1  2	2 1 			2  1 1 2  4 1	i 2 2 	20 4 13 3 1 26 7	13 242 18 11 14 3 1 6 6	11 14 2 12 	4 1 	30 243 56 18 39 6 2 43 15
2  3 21	  6	i i	 1	20 4 32 95	24 41 84	3 1	30 2 50 67	 3 6		7 1 7 33	11 49	1  1	1  9	  	i	1 1 1 8	2 1 5	22 1 29 86	19 3 24 33	19 46	1  1 14	44 73 179
<sub>3</sub>			· ·	2 12	4		4 6	···i		1 4	1 5	::		 		<b>.</b>		3 9	1 1	2 6		16
			 	1 1 i	····i		::::i		 1	···i	i	1 	• • • • • •					i	i 1			1 1 1 1
				6 1	3 8 8  13 1		3 13 5 1 5 1	i		···i 1 ····2	i i i	 3					i i i	4 6 12	10 2 1	2 	i	14 8 1 13
i 1 1	i :::			 3 4  1 1 12	5 4 6 3 3  1 8	· · · · · · ·	5 5 1 3 2 1 1 1 20	2 	1	2 1 	···i 7 1 1 ··· 1	1	• • • • • • • • • • • • • • • • • • • •					3 2 2 5 1 	2 6 1 1  1 1 20	1 4	2 1 2	5 9 7 3 1 1 2 20
				127 17 8	109 19 5	6	236 36 13	 	::		· · · ·								236 36 13			236 33 16

TABLE 66.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

1			_												
							AGE	PER	IOD	s. 					
DEATHS IN JERSEY CITY.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.	Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.
Senile Debility	2 · · · · · · · · · · · · · · · · · · ·	1	9 23 31	1  2		1	200 12 25 5	166 22 11 1 1	16  23 3	6 1	2 2 1 1  10 1 1 2  1	12 1 1 2 1	12 2 12 1 1	2 1 1  6 1 	9 1 1 1 1 2 1 2 1 1 2 1 1 1 2 1 2 1 2
Totals	 292	574	445	152	<u>-</u>	104	183	218	245	222	252	181	 215	217	378

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 318T, 1903.

AGE	PER	101	D8.	6E	х.	COLOR.				n.	ATIV	ITY					1		BO	CIAL		
Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
17  1 2	20	1		19 13 7 3 6 2  120 2 6 33	1	2	14 12 4 1 1 83 9 4 16	3	2   1	8 7 2 1 1  9 	17 2 1 1 1 21 4 5	··· · · · · · · · · · · · · · · · · ·	2	· · · · · · · · · · · · · · · · · · ·	i	2 1  2  12  3	2   11	10 13 3 3 8 3 55 3 4 11	١	31 3  2  1 16 1 2 4	2  11 1 5	50 23 7 4 7 3 1 148 12 12 35
1  i	i			5 3 4 1 2 1 5	4 1 1 2  8	2	4 1 2 2 1 9			1  i 	1   1	1	1  	1	:::::::::::::::::::::::::::::::::::::::	···· 2 ···· 1	:: :: :: 1	2 3 1 1 	3 2  1  2 1 7	2   1	 2  1	9 4 5 2 1 2 1 13

### TABLE 67.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

				AG	E PI	ERIC	DB	١.				_
DEATHS IN KEARNEY.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Of the Female Genital Organs.   25   D	1	1 	3 1  2	3	i	1 1 1 1 1 	5	3	1 3 3	i : : : : : : : : : : : : : : : : : : :	i	· · · · · · · · · · · · · · · · · · ·
Diseases of the Larynx and Thyroid Body.       68         Acute Bronchitis.       69         Chronic Bronchitis.       70         Broncho-Pneumonia       71         Pneumonia.       72         Pleurisy.       73         Congestion and Apoplexy of Lungs       74         Othes Diseases of the Respiratory System       77         B Infantile Diarrhoea, Anthrepsia       82         Diarrhoea and Enteritis.       83         Other Diseases of the Intestines       87         A Cirrhosis of the Liver.       90         Other Diseases of the Liver.       92         Inflammatory Peritonitis (Non-Puerperal)       93	!	i					1	1	2 1	i	1 2	i

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.—Continued.

	AG	E PI	crj	ODE	3.		8E	x.	COI	юR.				N	ATI	VI	ry.							BOCI	AL MON.	
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white	unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Total.
• • • •		• • •	i		::		1 3	2  3 1 2			2 1 6	i i				·· ·· ·						1	1 1 6	i		
	i	1  1 1	i 1				1 1 3 1	10  1  1			11 1 1 1 1	1  1 1		i ::	1 1				2  			5  3 1	2 6 1 1 	i 	1	1-
•••	i 	3 1 1	1				1 2 1 1 2 11	1 1 1 			3	i		i	i 		i				::	1 2  1	i 	1 2 2	i  i	
	2   1	6 3 4 1	3	i		2	11 3 6 1 4 2	7  1 1		} 	6 9 3 4 1 5 2		1	2	1 		2  i				1 1	7 1 2 	1 1 1 5	3		1
		3	5 1	  1			1 1 1 1				 1 1 1					i 						5 1 	i 	1 1 1 1		1
1 1	2 	2 	1 2				1 2 1 2 1 2 1	5  1 2	1	i	1 6 7  2 2 3 2 1	2 ··· i		i	.i ∷		i 					1 6 1 1 1	3  1 1 3			1
· · · · · · · · · · · · · · · · · · ·		1 1 1	2	i			1 1 1 4 2 1	 1 1 1			1 3 1 2	i	 	i			1			   		1 2 	i	3 2	١	

TABLE 67.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

												_
	_			AG	E PI	ERI	OD8	٠.				
DEATHS IN KEARNEY.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five	Twenty-five to thirty.	Thirty to thirty-five.		Forty to forty-five.	Forty-five to fifty.
Acute Nephritis. 96 Bright's Disease 97 Other Diseases of the Kidneys and Adnexa. 100 Diseases of the Bladder. 102 Diseases of the Female Genital Organs. 114 O Puerperal Metroperitonitis. 120 Erysipelas. 125 Gangrene 126 Plegmon. Acute Abscess 128 Malformations. 137 Congenital Debility, Icterus and Sclerema 138 Want of Care. 139 Other Diseases Peculiar to Infancy. 140 Senile Debility. 141 Suicide or Attempt at Suicide—By Poison 142 Sunstroke and Freezing. 147 Inhalation of Noxious Gases (Suicide excepted) Dropsy. 155 Unknown or Not Specified Diseases 161	3 4 1 1 1	4 1 			1	i   i	· · · · · · · · · · · · · · · · · · ·	1   1	i :: :: :: :: ::	   	· · · · · · · · · · · · · · · · · · ·	1 1 
Totals	14	15	14	9	5	7	9	6	12	8	6	7

Death rate 17.68.

IN THE STATISTICAL DIVISION OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

## TABLE 68.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

				AG	E PI	ER]	ODE	١.				
DEATHS IN LONG BRANCH.	Under one month.	Under one year.	One to five	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	
yphoid Fever				:			-	1	1		2	-
cariet Fever	• • •		• • •	1	• • •	• •	• •		::	••;	٠,	1
iphtheria and Croup8	• • •		• • • •	''i			• •				• •	i.
ymæia and Septicæmia								1				ij,
Ymeis and ceptuesms   19   19   19   19   19   19   19   1	• • •		• • •	• • •	···i	انظ	٠.	.:	1	٠.	٠:	j.
Of the Meninges.	• • • •	1	•••	• • •	•••	2	Z	1	3		1	1
Of the Peritonium.	• • •		• • •								• •	ļ
of Other Organs								1			::	į
ncer of the Stomach and Liver											٠.	1
Of the remaie Genital Organs	• • •	•••	••••	• • •	• • •	$ \cdot \cdot $		• •	• •	•••	٠.	1
abetes		• • •			···i		::				•	
nemia Chlorosis32			i			۱ ۱				i	i	
coholism (Acute or Chronic)34	٠٠:	•••				::	٠.		.:	1	1	٠Ì
mple Meninguis	1	1	• • •	• • •	• • •		2	••	1	• •	• •	١
ralvsis Without Indicated Cause44	• • •	• • •	• • •	• • •	• • •					•••	· i	ı
neral Paralysis												1
nvulsions of Infants		1							i		í.	
tanus	• • •	• • •	• • •	• • •	2	$ \cdot\cdot $	• •		.:	• •	٠;	
renic Diseases of the Heart. 57	•••	• • •	···i	• • •		· ;			1		Ţ	ij
ganic Diseases of the Heart. 57 seases of Arteries, Atheroma, Ansurism, etc. 59 ronic Brenchitis. 70 rondo-Pneumonia. 71											. :	1
ronic Brenchitis70	٠٠٠			:						¦		1
roncho-Frieumonia	٠٠; ا	2	···ż	1	• • •		$\cdots$	.:	$\cdot \cdot  $	٠.	• •	ı
73	1							1		∷i	• •	
string			1								::	ļ
seases of the Respiratory System		• • •			:::				• •	• •	٠.	ı
seases of the Stomach (Cancer excepted)81				• • • •		$ \cdot\cdot $	٠٠ï	••	••	•••	• •	1
iarrhea and Enteritis	Z		- 4			••					•	1
irrosis of the Liver90					:::		i			::	::	i
liary Calculi	این						• •			٠٠i	1	١
Her Diseases of the Liver	1	•••	•••	• • •	··i	i	••	٠;	ان:	ا: ۱	• •	l
mendicitis95	• • •			• • • • •	- 4	-		-		i		l
irrosis of the Liver										!		١
ight's Disease97	• • •	• • •		• • •			• •	••	2	3	• •	١
102   103   103   104   105	• • •	• • •		•••	• • •	••	• •		••	• •	i	1
cidents of Pregnancy							i		::			i
ingrene									٠.,	٠.	٠.	ļ
Alformations	1	1 4		•••			• •	••	• •	$\cdots$	٠.	l
ant of Care 139	1	*	- 4		·••i		••				•	l
seases Peculiar to Infancy140	î											١
nile Debility141							٠٠	٠٠	اد ٠	• •	٠.	١
Profession 142	٠٠٠,	•••	• • •	• • •	••••	• •	••	$\cdot \cdot  $	1	••	٠;	١
cidental Injuries 145					:::i			4			i	١
irns by Fire				i						ار.		١
cidental Drowning148	٠٠٠					i	i	٠.		1	٠.	1
ther External Violence	$\cdots$		• • •		• • • •	1	• •	$\cdot \cdot  $		••	• •	1
126   126   127   128	:::	:::	:::	· · i	:::	::		$\cdot \cdot  $	::	::	• •	-
ther Tumors	:::	· i	:::		· i	::	::	:		i	::	1
		- 1						- 1	i	- 1		1
Totals	11			-6	-6	5	7	10				١

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

_	AC	E PI	CRI	ODE	١.		8	EX.	COLOR.				N	AT	IVI	FY.				_		co	SOCI NDIT		
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Total.
1111	i 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			11111.511.12223342212511117128111152171211441521111	1 1 2 13 1 1 1 1 1 2 2	3 1 3 1 1 3 1 1 1 1	41211126211233442112251130111229111281192112281115 :17111112	22		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		111111111111111111111111111111111111111	i					22188 1 1 22 1 1 2 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1	211224 10022		i	201111228211122281111222881111133111113

# TABLE 69.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

				AG	E P	ERI	ODS				_
DEATHS IN MILLVILLE	Under one month.	Under one year	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty	Twenty to twenty-five	Twenty-five to thirty.	Thirty-five to forty.	Forty to forty-five.	T. 4. 64.
Tophoid Fever.   1   1   2   2   2   2   3   3   3   3   3   3	' 		<del></del>		1	1	<del>-</del> ;	<del></del>	-; <del></del>	-	-
arlet Fever			2	1,	<b>.</b>					j	1.
phtheria and Croup	• • •			2				••;•	:(	٠	١.
mia and Septicemia	• • •		• • •	• • •	• • •	• •		• ;	ļ'	٠.	1.
Of the Stomach and Liver	• • •	• • •	• • •	• • •	• •		3		*		1.
Of the Intertines and Rectum			• • •	• • •	• •	• • •		• • •		,	1.
Of the Female Genital Organs 25			• • • ;	• • •	• • •	• •		::::		!	1
Of the Skin					• • •		!				i.
Others G										11	L
eumatism26							! !			1	
coholism (Acute or Chronic)							!		٠٠.	1	
aple Meningitis		1	1	'			٠٠,	. • : •		1	ł
ogressive Locomotor Ataxia40	• • •		:	• • •				• • •	٠,٠٠	1	1
ebral Hemorrhage and Congestion42	• • •	1	1	• • •		• •	• •	• • , •	• • • •	1	1
ralysis Without Indicated Cause	• • •	• • •			٠٠;	• •		٠٠,٠	• • • •		1
neral Paralysis40	• • •		• • •	• • •	T	• :		• • • •			٠
nepsy	٠٠.		• • •	• • •	٠	• •				i • •	1
tanus 50	-	-	• • •	• • •		• •	• • •		• • •	1	1
her Diseases of the Nervous System. 52 C	• • •	l∵i∣			• • •	i				1.	
seases of the Ears54		l	i						. 1		. 1
docarditis					1	٠	1				١.
ganic Diseases of the Heart		1						, .		1	ιl
seases of Arteries, Atheroma, Aneurism, etc59	٠٠:	1			٠		· • •		•   • •	٠.,	٠
her Diseases of the Circulatory System66	1		• • ;		• • •		• •		• • •	1	١
seases of the Larynx and Inyrold Body	• • •		1	1	• • •	• •	1		٠	٠.	١.
ropic Bronchitis		1			• • •	• • •				, • •	١.
oncho-Pneumonia 71		···i				• •	••		.	11	il
peumonia 72	. • •	î	· · · · · · · · · · · · · · · · · · ·		• • •					, 1	-
ngestion and Apoplexy of the Lungs	• • •		l <del>.</del>		• • •	::	1			1	Ì
thma			1				١	ii.		.	.
seases of the Respiratory System			1			٠.	١				.
seases of the Stomach (Cancer Excepted) 81						٠	1	1'.	; 1	١	١.
fantile Diarrhæa, Athrepsia	1	4	1			· •	1				:
arrhæa and Enteritis83			• • •			• •		1;.		1	Ц
vsentery	• • •		• • •		٠	٠.	į - •		• • • •		٠١
ner Diseases of the Intestines	• • •					• •	, · ·	-	• •   • •		٠
her Diseases of the Liver	• • •		· · i				;••	.		:	١.
4		1		. 4					- 1	1	ı
ight's Disease		· · ·		-						1	1
varian Cysts and other Ovarian Tumors113					ı	:				1	.
ecidents of Pregnancy	1		j				:			1	.
ierperal Septicæmia119 A				,		1			1	١	٠ ا
alformations	1			٠						١	٠
ongenital Debility, Icterus and Scierema138	6	6		٠	• • •			$ \cdot \cdot $	• •   • •	.   • •	٠
arrhæa and Enteritis		1			ļ			$ \cdot\cdot $	• •   • •	1	٠!
ther Accidental Injuries	• • •					[		1.11.		1	٠١
unstroke and Freezing 147	• • •	1	1:1			1	· i	•		1	٠
ecidental Drowning. 148	• • •	1	1 1	1	· · · i	1:	1.*				۱,
phyxia-Cyanosis. 156	· · · i		l *		١. *	1.	1				۱:
140   141   142   143   144   145	î		:::		٠	::	1	::	1		. 1
		1	1	1		1.	1 1	1 1			
Totals	14	21	14	5	_	- 5	6	5	2 4	1 e	_

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	AGI	C PE	RIC	DB			SE	x.	COI	or.	-			1	TAT	IVI	TY.						co	NDIT	AL ION.	_
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Fifty to fifty-five. Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white	mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	1 2 2	· · · · · · · · · · · · · · · · · · ·		21	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		i	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		1	2				1	· · · · · · · · · · · · · · · · · · ·		13 22 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1		1 2 2 5 1		2 2 1 10 0 5 5 1 1 1 1 2 2 1 1 4 4 1 2 2 5 5 1 1 4 4 1 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2

TABLE 70.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

					AG	E PI	TRI	ODE	١.				
DEATHS IN MONTCLAIR.	•	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Typhoid Fever	1						1	_	1	<u> </u>	-	_	<u> </u>
Ngasles. Scarlet Fever Whooping Cough Diphtheria and Croup Influensa Pyæmia and Septicæmia Tuber- Of the Lungs. culosis. General. Syphilis. Cancer Of the Stomach and Liver. Others Anemia Chlorosis Alcoholism (Acute or Chronic) Simple Meningitis. Progressive Locomotor Ataxia. Progressive Muscular Atrophy Cerebral Hemorrhage and Congestion. Paralysis Without Indicated Cause. General Paralysis Convulsions of Infants Diseases of the Nervous System Pericarditis.	5			1			[						
Whooping Cough	6		٠٠.	2	• • •	• • •	• •		•••	• •		•••	٠.
Diphtheria and Croup	8	:::		3	···ż								١.:
Influenza	9		2	1					٠.	٠.			١.,
Tuber Of the Lungs	14		• • •	1	• • •	•••	٠,	••	5	1	• •	. ;	٠٠
culosis. General	8	• • •	•••	1			*	i				.	· ·
Syphilis	24	``i	8									$ \cdot $	
Cancer Of the Stomach and Liver	B						• •				• •	1	٠.
Anemia Chlorosis	32	• • •	· • •	• • •	•••	• • •	• •	• •	• • •	• •	•••	-1	١٠٠
Alcoholism (Acute or Chronic)	34				: : :					::		i	
Simple Meningitis	39		2			1					1		·i
Progressive Locomotor Ataxia	40				• • •	• • •	• •	• •	• •	٠.	• •		1
Cerebral Hemorrhage and Congestion	42				• • •	•••	• •	i	i	• •		. 5	·i
Paralysis Without Indicated Cause	44											ī	
General Paralysis	45								• •				١.,
Convulsions of Infants	49	2	1		1	:	• •	• •	• •	٠.	• •	• •	٠.
Pericarditis	. 55	• • •	• • •	· · i	• • •		• •	• •		• •	::		: :
Endocarditis	56						i			::			i
Organic Diseases of the Heart	57		٠٠				٠.		٠.	٠.	• •		١.,
Angina Pectoris	58	• • •	• • •		• • •		• •	• •	• •	٠;	• •	$\cdots$	١٠.
Embolism	60		• • •				• •	::	: :	1	::		l::
Hemorrhage	65									i			
Other Diseases of the Circulatory System	66	1					٠.		• •		• •	٠:	i
Diseases of the Larynx and Thyroid Body	68			• • •	• • •	• • •	• •	• •	٠.	• •	••	1	١٠.
Broncho-Pneumonia.	71		2	3			::			••	::	::	l::
Pneumonia	72		4	3			1			· .			i
Other Diseases of the Stomach (Cancer Excepte	d)81	1	3	;			• •	• •	• •	• •	• •	• •	• •
Diseases of the Nervous System Perioarditis. Perioarditis. Organic Diseases of the Heart Angina Pectoris. Diseases of Arteries, Atheroma, Aneurism, etc. Embolism. Hemorrhage. Other Diseases of the Circulatory System. Diseases of the Larynx and Thyroid Body. Acute Bronchitis. Broncho-Pneumonia. Pneumonia. Other Diseases of the Stomack (Cancer Excepte Infantile Diarrhœa, Athrepsia. Diarrhœa and Enteritis.	83	z	10	1			• •	• •	• •		• •	• •	
Dysentery.	84		:::	i									::
Hernia and Intestinal Obstructions	86	1										• •	i
Other Diseases of the Liver	90				• • •			• •	• •	• •	• •	• • •	} 1
Inflammatory Peritonitis Non-Peurperal)	93		i		· · i	···i		::		2			1::
Appendicitis	95				1								
Acute Nephritis	96					;	• •	• •	٠;		• •	• •	١.
Puerneral f	19 4		• • •	• • •	• • •		• •	• •	1	٠.	• •		1:
Other Disaeses of Bones.	132	:::	3										::
Congenital Debility, Icterus and Scierema	138	7	38					$ \cdot\cdot $	• •		٠.	• •	١.
Want of Care	139 141		1	• • •				••		• •		• •	١٠
Suicide or Attempt at Suicide—By Firearms.	42 D	:::		1:::	:::		::		i	l::	'n		1:
Fractures	143												
Other Accidental Injuries	145	1		1	1	1	• •				• •	$ \cdot\cdot $	1.
Donne na Lite	147			1	1.								1.
Sunstroke and Freezing					1:::		::				::		1:
Inhalation of Noxious Gases (Suicide excepted)	150												
Sunstroke and Freening. Inhalation of Noxious Gases (Suicide excepted) Other Accidental Poisoning.	150	:::		2			١		٠,	ļ		1	ŀ
Other Diseases of the Stomach (Cancer Excepte Infantile Diarrhoea, Athrepsia.) Diarrhoea and Enteritis. Dysentery. Hernia and Intestinal Obstructions. Cirrhosis of the Liver. Other Diseases of the Liver. Inflammatory Peritonitis Non-Peurperal). Appendicitis. Acute Nephritis. Bright's Disease. Puerperal Other Diseases of Bones. Congenital Debility, Icterus and Sclerema. Want of Care. Senile Debility. Suicide or Attempt at Suicide—By Firearms. Fractures. Other Accidental Injuries. Burns by Fire Sunstroke and Freesing. Inhalation of Noxious Gases (Suicide excepted) Other Accidental Poisoning. Other External Violence.	150 151 152					···ż			i				:
Sunstroke and Freesing. Inhalation of Noxious Gases (Suicide excepted) Other Accidental Poisoning. Other External Violence.  Totals			87	_	7				'i 12			1 	<u> </u> :

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

	AGI	e Pi	eric	OD8	١.		SE	x.	COLOR.				2	TAF	IVI	TY.							NDF	IAL PION	
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Total
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## TABLE 71.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES • THE YEAR ENDING

				AG	E PI	ERI	DB	١.				
DEATHS IN MORRISTOWN.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Donton And to After
yphoid Fever			_			_	_	<u> </u>	-	-	_	-
hooping Cough	• • •	1	1 1		<b>.</b>				• •		• •	
væmia and Septicæmia.	:::1	• • •		• • • •	• • •		i	• •		::	::	١.
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Of the Meninges	$\cdots$		• • •	1					٠.		• •	
E General E	:::		• • •		• • •	·;	٠;	$ \cdot\cdot $			• •	١٠
nncer of the Stomach and Liver		• • •			•••		-	•••			•	ŀ
Of the Intestines and Rectum. 25 C							::					ľ
Others	• • •							٠.:			٠.	l
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mple Meningitis.		···i	· · · · · · · · · · · · · · · · · · ·	· · i	• • • •	• •	•		•		::	l
rebral Hemorrhage and Congestion. 42	2			î								ļ
ralysis Without Indicated Cause44	••;	٠٠.	;				• •		1		• •	l
nemia Chiorosis. 32 mple Meningitis. 39 rebral Hemorrhage and Congestion. 42 ralysis Without Indicated Cause. 44 nrulations of Infants. 49 ricarditis. 55		1  2	1	• • •	• • •	• •	• •	1	• •	• •	• •	١
docarditis			: : :	: : :	· i							ì
ganic Diseases of the Heart						1				1		i
Invalisions of Infants.	• • •				• • •		• •	• •	• •		• •	l
seases of Arteries, Atheroma, Aneurism, etc	•	• • •		• • •					• •		• •	l
emorrhage	2	· • •										l
ther Diseases of the Circulatory System66		2		i				٠.			٠.	l
seases of the Nasal Posses	· · ;			• • •	• • •	• •	::	1	• •	$ \cdot\cdot $	• •	Į
eute Bronchitis	î							::	::		::	l
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Ilmonary Emphysema. 77 A						1			::	::		
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arrhœa and Enteritis	• • •		···i	• • •		l·i	· ;	• •	• • •		• •	١
ernia and Intestinal Obstructions. 86								::	l::	i		l
reentery. 84 emia and Intestinal Obstructions. 86 ther Diseases of the Intestines. 87 Arrhosis of the Liver. 89 there is a second of the Liver. 89 there is a second of the Liver. 89										1 1		١
bor Discourse of the Liver	- • •			• • •	:::		١٠٠	٠.	١٠٠,		٠٠,	Ì
flammatory Peritonitis (Non-Peurperal)	:::		· · i	• • •	:::		٠٠		'	2	• •	١
pendicitis95				:::		ì	1	i : :	··		::	l
ute Nephritis96			;				i	·:	• •	1		I
veineles Disease	• • •	• • •	1		¦ • • •	1	1	1	••	1	• •	l
egmon. Acute Abscess 128		• • •		l:::	l:::		::	i	::	::	::	l
alformations	2						::		::	,		l
ngenital Debility, Icterus and Sclerema138	13	5	1				٠.				٠.	l
nile Debility 141	1	5			ļ	. •	١				٠.	١
icide or Attempt at Suicide 142 T					I:::	•						١
her Accidental Injuries			ļ				2	1				1
irns by Fire			1		• • •	· •	٠.		١٠٠	••	٠.	١
rrhosis of the Liver. 90 ther Diseases of the Liver. 92 thar Diseases of the Liver. 92 thar Diseases of the Liver. 92 thar Diseases of the Liver. 93 ppendicitis. 95 pute Nephritis. 96 right's Disease 97 ryspielas. 125 egmon. Acute Abscess. 128 alformations. 137 nogenital Debility, Icterus and Sclerema. 138 ther Diseases Peculiar to Infancy 140 nile Debility. 141 ticide or Attempt at Suicide 142 I ther Accidental Injuries. 145 turns by Fire. 146 A instroke and Freesing. 147 teidental Drowning. 148	• • •		• • •			i	٠.		١		• •	Í
ccidental Drowning. 148 nknown or Not Specified Diseases. 161	• • •				:::	l. •	::	::	::	1:::	::	
Totals.	23		17	6	2	-	13	6	۲	12	_	١
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AGI	E PER	HO	D8.		_	AG	E.	COLOR.	_			1	TAN	.v.	TY						CO	ND17	IL TON.	
Fifty-five to sixty.	Sixty to seventy.	Eighter to nineter	English to milety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden,	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
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TABLE 72.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

			Ī			_				AGE	PEI	lIOD	8.					==
1	DEATHS IN NE	WARK.		Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.	Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.
Smal Meas Scarl Who Diph Influ Pyær	noid Fever	nia	4 .5 .6 .7 .8 .9	2 1 3	2  4 22 5 2	65	1 24 2 33		6 i	10 1  1	12	8 2  2	7  1 2 3 1	3 2 2	3	1 2	1	1  5 1
Tuberculosis. I	of the Lungs Of the Lungs Of the Meninges Of the Peritoneum		19 A B C		iö 7	ii 12	 4 3	6	30	86	93 2	106 1	67	64	39 1 1	48	28 	40 2
Scroi Syph	Organs. General fula ilia Of the Mouth Of the Stom'h and Liver.	] [	E . 23 . 24 A .	2	1 5	 1			1  1	i 1		  1	i 1	  4	1   5	10	12	16
Cancer	Of the Intes's and Rectum. Of Female Genital Org's. Of the Breast. Others	25	C D E G			1	· · · · · · · · · · · · · · · · · · ·			  i	 2 	2  2	1 1 3 3	 1 2 3	1 5	2 6 1 7	2 4 3 11	1 7 1 14
Diab Addi Leuk Aner Alcol Ence	etes. son's Disease. semia. nia Chlorosis. holism (Acute or phalitis.	Chronic).	28 30 31 32 34 38	i	1 	i	1 	i		1 1	1	3 1 2 14	2 2 11	1 1 7	3, 1, 1, 2,	6	1 3  6	
Prog Prog Cerel Co Softe	ressive Locomotor ressive Muscular bral Hemorrhage ngestion	r Ataxia Atrophy and	39 40 41 42 43	1	1	1	13  2	9		3  1	3	4 	5 1 	1  15	3 2 1 13	2 1  27	28 1	52 1
Ca Gene Othe Epile Non- Conv	use	y	44 . 45 . 46 . 47 . 48 49	1 23	1 60	3 17	3	· · · · · · · · · · · · · · · · · · ·	1 2		i i 	1 1 3		. i	1 1 	5 1 1 1	2 3 2 2 1	5 3 1 1
Sy: Dises Peric Endo Orga	stem	52	C . 54 . 55 . 56 57	2  1 6	2  3	· · · · · · · · · · · · · · · · · · ·	 1 4 3	4	3 6	2  6 9	··· i ·· 3 4	1 1 4 4	···· ··· ··· ··· ··· · · · · · · · · ·	2 1 9 11	1  7 12	4 14 16	1 1 17 22	3  27 55
Dise'	na Pectoriss of Arteries, Athe eurism, etc	eroma,	JG .		¦ إر	ا ا		• •		1		 		1	 <u>.</u>	1		5 3

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P	AG		•	Si	EX.	COLOR.				1	NATI	VITY				•				DITIO		
Seventy to enghty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States	England.	France.	Germany.	Ireland.	Italy	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Total.
1 16	3 1			38 2 1 34 18 58 7 15 1 412	23 1 1 35 21 54 18 8	2 6 37	40 3 5 67 39 105 15 17	1 ::: 12	8	4  i  6 2  70	3  1 2 3 	4  i  i 	3  1  5	   1 6		5  3 1 i	i i	25 2 3 2 14 9 1 1 301	34 1 2 66 39 110 6 12	2  5 2  60	- :: :: :: i	61 3 2 69 39 112 25 23 1 2 619
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9	2		٠.	27	33		22	• • • •		26	7		٠.,	1		3	1	43	3	13	1	60
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2	i			94 94 5 1	66	3	137 2	i ···i		1 1	4 2	8	,			6	3	21 3 1	132 1	7 1		1 160 5 1
65	44 2	3	1	132 1	132 3	10	134 4	12	1;	60	42	<b>3</b>	7			5	$\cdot \cdot  $	111 2	31	$^{114}_{2}$	8	264 4
10 2 i	<b>4</b> 3	1		17 9 7 6 6	18 8 5 7 41 5	1 1  3	18 11 7 5 7 102 8	2	i	6 3 2 2 	3 3 3 		2 1	1		3	•••	17 10 3 2 2 2	4 2 5 5 5 105 6	14 5 4 4		33 17 12 11 7 105 8
1 16 49 2	 4 13	 1 2	··· ··· ···	7  1 72 123 8	7 1 3 55 109 2	1 5 6	6 1 2 66 126 6	2  4 5	4	5 19 40 2	1 26 34 2	 3 4	 6	i	   4	 5 4	··· 4 4	8 3 51 110 4	4 1 1 32 45	2  44 73 4	4	14 1 4 123 232 10
2	3	1		7	5	اا	5	2	!		2					2	1	6	3	3	1	12

TABLE 72.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

							AGE	PER	IODS	•					_
DEATHS IN NEWARK.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.	Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.
Embolism60			• • • •		<u> </u>							•••			2
Phlebitis and Other Diseases of the Veins												'		1	
									<b>:</b> ::	1	··i	1		2	: : :
Other Diseases of the Circu-	_	١					,			6	2		3	1	_
latory System.   66   Diseases of the Larynx and   Thyroid Body.   68   Acute Bronchits.   69   Chronic Bronchitis.   70   Broncho-Pneumonia.   71   Pneumonia.   72   Pleurisy.   73   Conges'n & Apoplexy of Lungs   75   Asthma.   76   Other Dise's of the Respira-	. 2	. •	1				1  12		l	_		9	3	-	9
Thyroid Body 68	٠.,	2	5			1		1	1	···ż	1 1 1 39 2				2
Acute Bronchitis69	9	39	23	• • •	• •	1	1	1	2	2	1	1 2	3 1 24 1 1	 6 2 33 2	10 10 10 42 42 1 1
Chronic Bronchitis	· · · ż	50	43	• • •	• •	• • •		· · ;	1 1		1	3	1	2	10
Pneumonia	٠ <b>4</b>	37	51	7	. 3	7	12	21	25	 2 22 3	39	27	24	33	42
Pleurisy		i	6	4		2		1	1		2	1	1	2	-2
Conges'n & Apoplexy of Lungs .74	2	2	1		1				1	1	1		1	2	1
Gangrene of Lungs	• • •	• • •	• • •	• • •	• •	• • •		$ \cdot\cdot _{\mathbf{i}}$	• • • •	•••	<u>.</u>	···ż	···i	··i	1
Other Dise's of the Respire-	• • •	• • •	• • •			• • •		*		• • • •	-	L	1	•	٥
Other Dise's of the Respiratory System		1	1			١	3	1	4	2	3	4		3	4
Dise's of the Esophagus 79 B	٠		1	• • •			···i	· · <u>·</u>			• • •	٠٠:	• • •		
Ulcer of the Stomach80	• • •	• • •	• • •	• • •		• • •	1	1		1	• • •	2	• • • ,	2	2
Other Diseases of the Stomach (Cancer Excepted)81	1	6	5	1			1	1	١		1	2	2	2	4
Infantile Diarrhea, Athrepsia82	9	151	34	5			l	<del>.</del>							
Infantile Diarrhœa, Athrepsia82 Diarrhœa and Enteritis83	3	5	1	··i	٠.	1	i i	1	1	5	4	3	3	 2 1	10
Dysentery84 Hernia and Intestinal Obstruc-	, 1	151 5 7	3	1	1	• • •	• • •	1	1	• • •	• • • •	• • •	• • •	1	5
tions86	2	2	5	l	1			3	5		1	4	2	3	8
Other Diseases of the		. ~	·	l	-	١	l	"	1	• • •	-	-	_	ا آ	۰
Other Diseases of the Intestines		1	1	1						1	2	2		1	
Cirrhosis of the Liver90	· · · :	• • •	1	• • •	• •		• • •	1	4	7	11	7	8	9	
Inflammatory Poritoritie	ı		• • •		• •		• • •	1	3	1	• • •	• • •	• • •	3	5
(Non-Puerperal). 93			1	2	3	6	5	8	4	1	5	3	1	1	5
Appendicitis95						2	2	1	1		1	ī	1		·i
Acute Nephritis96		3	3	2	2	3	4	_1	7	6	2	6	4	6	14
Bright's Disease97	• • •	4	3	4	2	2	8	11	16	20	27	32	31	28	63
Abscess 98					١	l	l	l	١	İ				! !	
Other Diseases of the Kidneys			• • •		ļ				····				٠	•••	
and Adnexa100								1		<u>.</u>	1				
Diseases of the Bladder102	• • •	• • •			٠٠					2		1	• • •	• • •	2
Matritic 100	• • •		• • •				· · i			١.			• • •	• • •	
Uterine Tumors (Non-Canc'rs .111					I	:::	١		:::		∵i				
Other Diseases of the Intestines.         87         A Cirrhosis of the Liver.         90           Cirrhosis of the Liver.         90         Other Dise's of the Liver.         92           Inflammatory Peritonitis (Non-Puerperal).         93         Appendicitis.         95           Acute Nephritis.         96         Bright's Disease.         97           Perinephritis and Perinephritic Abscess.         98         Other Diseases of the Kidneys and Adnexa.         100           Diseases of the Bladder.         102         Abscess of the Pelvis.         107           Metritis.         109         Uterine Tumors (Non-Canc'rs.         111         Other Diseases of the Female         Genital Organs.         112           Coridate of Presentation         116         Coridate of Presentation         116		<b> </b>				<b> </b>		<b> </b>						1	
Other Diseases of the Female	į		l				1								
Accidents of Pregnancy 118	Ė					· · i	i		· · i	2		• • • •		• • •	
Puerperal Hemorrhage117		:::		:::	::	l <b>.</b>	l	2	3	:::	:::		l:::		
Puerperal Septicæmia119 A				<b> </b>	1		<b> </b>	3	3		2	ļ			:
Genital Organs				1	l	١.			1	1	l	_			
Eclampsia			••;			1	4	4	2	•••	···i	1	• • •		
Cangrana 198	2	2	1						i	∵i		1	•••	2	3

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.—Continued.

PI	AG	E DS	•	81	x.	COLOR.				NATI	VITY	r.							DITIO		
Seventy to eighty.	Eighty to ninety	Over ninety.	Not stated.	Male	Female	Color of decedent white unless designated by mark.	United States.	England.	Germany	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign:	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals
4	•••			4		1			. 2	2	• • • •	-	<del>-</del>		<del></del>		<u> </u>	<u>1</u>	4	-	
1	1	•		1 3	1 2		2 2	٠.,.		···;	···i				٠٠;		<b>2</b>	<u>.</u>	2 1	'	
5	1	1		21	18	4	20	3	5	5	2	1			2	1	19	9	8	3	
1 14 8 4 25 2	1 3 5 1 8	1 1	i	56 16 59 254 19	8 58 23 54 133 9 5	3 10 10 15	10 90 13 106 232 25	1 . 3 . 15	2 8 8 2 42	10 15 15 53 1	 3 26	4	·· ·· ·3	:::::::::::::::::::::::::::::::::::::::	1 2  1 7		5 18 18 9 156 10 5		1 17 10 6 73	3 2 3 3	1 3
3	···· •••••••••••••••••••••••••••••••••	::	: :	9	5 1		<sub>2</sub>	3	. 3 	··i			• •	· ;			5 1			•	
4	6			18			22	3		1		. 5	6	1		···	9 19	3	3 10	• • •	
i		• •		···.	18 1 5		1 5		i	··i	···i				··i	!'	6	7 1 2	2		
4 i 1		1		18 100 18 10	17 99 38 13	17 4	23 196 31 15	1 . 1 . 1 .	. 3 i 6 . 2	6 2 12 5	i				 3	i	10 i4 1	17 199 16 17	8 26 5		1
3		٠.		24	15	1	20	2 .	. 7	5	2		1		2		22	13	4		
1 6 2		· •		7 40 10	23 7	 1	8 26 9		. 19 . 2	3 14 3	 2 1				<b>ż</b>		3 40 9	6 17 6	2 6 2	:	
5 4 45	 2 14	i	 	28 7 31 180	23 3 38 128	1 2	36 8 32 142	2 1 4 26	. 8 . 1 . 14 . 62	3 8 53	 4 8	1 	i		 4 10	 3 2	24 3 31 155	21 7 22 58	16 95		3
• •	1	· •		!	1		1		•,•••		• • •	; • •	• •					• • • •	1	٠.	
6	 3			2 13 	1 1 1 1 1	1 1	10 1 1 1 1		3						``i	i	1 8 1 1 	1  i 	5		
1				<b>2</b>	3 6 5 9	1 1	2 7 1 6		. 1 . 2	 1 1	i i				···i	 	1 3 4 7	1 5 1 2	1		
3				 8 3 4	12 7 3 1	1 1 1	9 10 2 5				1 2 1	::			···i i		11 7 3 2	1 7	1 3 2		

# TABLE 72.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

							AGE	PER	HODI	B.					
DEATHS IN NEWARK.	Under one month	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.	Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.
ther Diseases of the Skin and Adnexa 129		3		_	_	_		_				1			
				•••	•••	•••	•••		•••	•••	• • •			• • •	• •
(Cancer Excepted)   { ott's Disease	2	··· ż	1 2	• • • •		• • •	1		• • •	···i	··i	• • • •	• • • •	···i	• •
ther Diseases of the		٠	_			• • •	• • •		• • •	-					• •
Other Diseases of the Joints—Athritis	A	iż	٠٠;	1		• • •	, • • •		• • •	. 1	• • •	• • •			• •
ongenital Debility, Icterus	• •	14	•	• • • •	• • •	• • •	• • •		• • •	• • •	• • •	• • •			• •
and Sclerems 13	8 146	86	9										ļ	,	
Vant of Care	9 43	19	2	• • •		• • •		١	• • •	• • •	• • •			• • • •	• •
Other Diseases Peculiar to Infancy14	0 10						İ		١						
enile Debility	1		'			• • •		6	ļ <u>.</u>	•••	٠.,	١			1
By Poison	<u>A</u>		1	1	٠.	. 2	9	6	2	5	4	3	4	2	
Strangulation	<b>c</b> ∵∷	• • •		• • • •	• • •	• • •		···i		2		i	· · i	1	
By Firearms	D						2	3	3		,		ī		١
By Cutting	-	İ					1			1		į.	l		1
By Drowning	e F	•••			٠.	• • •		:::	1	• • •				· i	• •
Others	ī	i • • •			::		i				٠		i	·	:::
ractures	J			•••		• : :			٠٠.	1	2	٠::	١.,,		
Other Accidental Injuries14	15 1 AL		7	ု စို	4	20 3	8	9	8	9	4	11	10	1	1
Burns by Fire 146	<b>-</b>		1 11	9	١		, 4	. 4	-		• • • •				• •
Surns by Corrosive 146 Substance	В		٠	' 1	ļ.,							٠.,			
Sunstroke and Freezing14 Accidental Drowning14		2	, 1	٠٠.		٠٠.;		1	3	1	٠.,	, 1	1	1	
nanition			` 	; z	3				- 4	. 1		• • • •	3	2	1
								•••	• • •	• • •			i		١
nhalation of Noxious Gases (Suicide Excepted)	50	ļ	2		٠.	1	. 1	1 	. 1	3		1 1	2	1	i
Other External Violence	D1	٠٠٠;	, 2		• •	١٠٠٠	1	,	•••	1 2		ī			١٠.
Exhaustion-Cachexia	53			1	1::			i				1	1 1		1.
Fever (Gastric Disorder)154	A	1	1								٠			ļ <u>.</u>	·-
Agnhyvia-Cyanogia 1	00   SØ 11		1	•••	· ·		ļ	• • • •	,•••	· · ·		• • • •		1	1
Pever (Gastric Disorder .154 Dropsy	58	• • • •	1	1		:::	1			• • • •		i		1:::	1:
Other Tumors	59	i			١					1	, i	: ī			[.
Unknown or Not Sperified Diseases10					1	1	1	1	1	, ,	. 1	i		١,	
							-			-			<u>'   · · · ·</u>	. 1	1
Totals	312	615	459	140	67	1116	198	3 229	286	260	270	247	270	285	15

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 318T, 1903.

P	AG			SE	х.	COLOR.				N	TLAT	YTTY					_		CONI	CIAL		
Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not Stated	Totals.
				4	3	1	6							٠.		1		1	6			7
··i			.:	···. 5	2 4	<u>2</u>	8		::	:::		:::		: <b>:</b>			i	····ż	7	: <b>: :</b>	::	9
		::	 	 iż	<b>2</b> 9	1 4	$\begin{array}{c} 1 \\ 22 \end{array}$		  -:-			:::	· ·	• •	::			1	1 22	: : :	::	2 22
		.:	::	144 32	97 32	10 8	241 64			:::	:::	:::		• •		 	::		241 64		::	241 64
33	24	 		6 25 34 4 4 8	46 13 4 1 2	1 1 4	10 24 26 4 1	6 2 2	i	23 10 3 1	14	i		1 1 	•••	 2  1 3	 2 1	16 27 6 2	10 7 17 2 3	48 3 1 1 2	 i i	10 71 47 8 5
2  1 4 1	· · · · · · · · · · · · · · · · · · ·		  1	3 2 2 89 14	i 1 2 24 14	1 3 1	3 68 24	1  i		1 1 1 ::0 2	1  12	10 2			1  	 1 7	1  5	1 1 3 40 6	1 1  1 59 22	1  14	::	3 1 4 113 28
····2	···i		•	10 21	1 4 1 3	1	1 8 10 3	1 1	: : : :	 1 2	 3 4	i i	 		••	1 1	 3	 5 5	1 6 11 1	 2 2 2	 1 4	1 14 22 2
i i :::				10 2 5  1 5 1 8	4 4 4 1 2 7 1	1 1 2	5 3 2 1 3 12 2 3			2	1 		1 1 1	2	i  	2 1 	 1	1 2 1	8 3 2 1  12	2 2  2  1	i :: :: ::	14 6 5 4 1 8 12 2
1	<u>···</u>	<u> </u>	<u></u>	7 2743	4	209	3267	_1	<u></u>	2	1	2	<u>.</u>	 27	<u></u>	<u></u>	 59	4	2 2370	_4	1	11 4901

TABLE 73.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

!				AG	E P	ERI	ОД	s.			_
DEATHS IN NEW BRUNSWICK.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty. Forty to forty-five.	
Comboid Forces						[	-	-	-1		
Typhoid Fever	• • • •	···i	• • •			١			1 1	1.	٠١.
Whooping Cough.  Jiphtheria and Croup.  Sanfluenza.  9  yæmia and Septicemia.  14  Relapsing Fever.  18  Uberculosis of the Lungs.  Of the Meninges.  22  A		2	13	13	3	l i	Ι.,	1	1	:: :	Т
nfluenza 9	•••	-	12			1	١	1	1		٦.
vernia and Senticernia 14	• • • !		ī	• • • •		Ш	١	1	1111		٠١.
elansing Fever				ı		1	1::	l'i			1
uberculosis of the Lungs		2		1		6	4	6	- 5	3	П
Of the Meninges (22) B		ī		1		1	-	1	1		1
Of the Stomach and Liver						1					
			1			1		1			-1
Of the Female Genital Organs. 25		I			1	1	1	1			11
Others G					17.7	1	1	1	11.1	il.	-1
heumatism		i i			1	!	1	1	1	1. [1]	1
Others         G           heumatism         26           iabetes         28	· • •					1::	٠.	1::	• •		il
handetes. 20 koophthalmic Goitre. 29 lcoholism (Acute or Chronic). 34		1			1:::	11.	· i	1	1	Hill.	71
lcoholism (Acute or Chronic)						1	-	1	,		П
imple Meningitis	Ξi	4	2		1	1	, .	1	• • •		П
rogressive Locomotor Ataxia40		l		i		1	- 1	1			.1
erebral Hemorrhage and Congestion. 42 aralysis Without Indicated Cause. 44 eneral Paralysis. 45		i				l i		1		i .	
aralysis Without Indicated Cause		1:::	I			١	1::	1			
eneral Paralysis			1:::			1		1		li i	i
ther Forms of Insanity				1		1				Il.	-
nilensy			l: : :			11.	1::	1		l il.	
onvulsions of Infants49	3	8	5			1		1		l l .	
eneral Paralysis		ī	l			1	. [ ]	Ι		[].	
Diseases of the Nervous System			1			1		1	. i	il.	
ericarditis					l'i		100			l i .	
Indocarditis					l		i			l'il.	
Organic Diseases of the Heart	i			i			1 3		⊟ 3	l īl.	
Pericar ditis.       55         Endocarditis.       58         Inganic Diseases of the Heart.       57         Diseases of Arteries, Atheroma, Aneurism, etc.       59         Other Diseases of the Circulatory System       68         Leute Bronchitis.       69         Chronic Bronchitis.       70         Ropenho-Preumonia       71			1	1	١					1.71	
ther Diseases of the Circulatory System66	1	i		1							
cute Bronchitis69	ĩ	ī	i			i		1.		.	
hronic Bronchitis70			1	1	1		4	1.		1   .	
Troncho-Pneumonia		1 1		l	١	Ι.,				l l .	
neumonia		5	7	١	1 1	u.,		2		١	
Pleurisy			'	1	1	١.,	١.,		٠١	11.	
Congestion and Apoplexy of Lungs	١			1	1	١.,	٠١	. 1	Ll.,	1	
sthma		1	٠	l	l	١.,	.			l l.	
Pulmonary Emphysema A	١	١		١	1	١.,	١.	.	.	l	
Other Dis's of the Respiratory System ( 77) B	١	1			1	П.,	. 1.	.	.	1	
Diseases of the Pharynx		1		1		١.,	١.	.		I	
Peurisy	<u>ا</u>	1		1	1	. [	. [.		.	11.	
Infantile Diarrhœa, Athrepsia82	l a	26	5	il	1	. [	. [.	.	.	I	
Diarrhœa and Enteritis	١		1	1		. [.	. [.	.	. i i	1	1
Dysentery	١	i		l		. [ .	Ι.	.   .	٠١.٠	I	
Hernia and Intestinal Obstructions86	l		١	l	1		Ι.		.	ll.	
Other Diseases of the Intestines	l	1				. [.	Ι.				
Cirrhosis of the Liver90	l					.1.	١.	. [.			2
Other Diseases of the Liver92											

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.—Continued.

	AG	E P	ERI	OD	8.		SE	х.	COLOR.	_			1	TAT	IVI	TY.							BOCI. NDIT		
Futy to nity-nve.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Itaiy,	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals,
		<del></del>		-						 ::i	-	<del></del>	<u>-</u>	- -	-	=		<u></u>	<u> </u>	1		1 1	<u> </u>		
•				::	::		1 13 1 2 1 17 17	19 2 1		31 2 2	::	::	٠.	::	::		::	::	::	i	···i	32 2 1		:::	
	· • •	1	i	::	::	::	2	1		2	::	::		i	::		::	::				1	ż	:::	
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i	···i		· ·		<b> </b> • •		1			23 1 1 1			ż		• •		• •	• •	• •	· i		1			
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ż	i	7		i a		1::	15	9	····i	11	::	::	6	Ġ	::	::	::	••	i		15	··i	∵.8	:::	
• •		3	3	•	1		1	9 3 2 1	1 3 1	6			i	1	• •	• •	• •	• •	• •	••	15 1 1	1 1	5	• • •	
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			1:			::	1 9 1 2	··· <del>7</del>	i	16	\ ::	::	::		::	::	::	• •	::			iė	:::		
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1	. 2	1	(	1			17 1 1	12	2	22	·:	١	1	4		::	<u> ::</u>	· ·	1 1	1	6 2 1		7	i	
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# TABLE 73.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

				▲G	EP	ERI	OD8	<b>.</b>			
DEATHS IN NEW BRUNSWICK.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
Puerperal Hemorrhage	1 12 2	5 3	1	i	i	1		2 1 	i i i 	1 1 1	1 2 3

Death-rate 19.43.

# IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

	AG	E Pl	ERI	ODI	١.		81	х.	color.					TAT	IVI	TY.							BOCI NDII	AL MON.	
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
	1  3	1  2 4	  6	··· ••• •••	··i	::	1 1 3 16	5  5 10		5 1 6 16	··· i	::	1	· · · · · · · · · · · · · · · · · · ·	- ::	 ::	::	::			1  1 9	4 1 3 8	1  4 9	:::	6
• • •		···i	  	::			 1 1	2 1 2 		2 1 2 		::			::		i				1 1 2	  2	····i	1 1 	18 26 26 18 18 14 22 14 21 31
i	  2	 1 1	··· ·i	3	3	··· ·i	13 1 3 13	5 4 4 1	3 2 1	67 5 5 3	· · · · · · · · · · · · · · · · · · ·	:: ::	1 1	i	· · · · · · · · · · · · · · · · · · ·	::		i	i	1 3	1  2	17 5 1 7	 6 2	3	18
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# TABLE 74.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

				▲G	E PI	ERIC	DD6					
DEATHS IN NORTH PLAINFIELD.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty. 3
Typhoid Fever 1						-		_	_	_	-	- 
Whooping Cough 7		2				١ ا		!				
Whooping Cough			1							۱۰۰'		
Pyæmia and Septicæmia14							1					• •
Of the Stomach and Liver   25   E   Cothers   25   C   G   Rheumatism   26   C   C   C   C   C   C   C   C   C						!				· •		٠.
Of the Breast							!					1
Others G												
Rheumatism26						١ ا			1			
rogressive Locomotor Auskis						1				ı i		
Cerebral Hemorrhage and Congestion42		ا ا				١ ا	١ ا			١ ا	11	
Other Forms of Insanity							١ ا					
Other Diseases of the Nervous System						١ ا	١ ا			١ ا		1
Pericarditis		l				۱۰۰۱						٠.
Endocarditis		ا				١ ا	١ ا			١		
Organic Diseases of the Heart				۱ ا						١	1	
Angina Pectoris	'	ا ا				۱ ا	١ ا	ا ا			١ ا	
Diseases of Arteries, Atheroma, Angurism, etc 59		۱				١ ا	١ ا					
Other Diseases of the Circulators System 99												
Acute Bronchitis		1		1		١ ا						• •
Acute Bronchitis			l i	1		١				1		٠.
Congestion and Apoplexy of Lungs74		۱				١ ا					!	٠.
Other Diseases of the Respiratory System 77 B		۱			1	١ ا				١		
Other Diseases of Stomach (Cancer excepted)81		١				١ ا	١				١ ا	
Diarrhœa and Enteritis83		l				١ ا				1		
Dysentery84												
Diarrhœs and Enteritis										١		
Acute Nephritis96				l		۱ ا	١ ا	1		١		١
Bright's Disease 97										11		
Ovarian Cysts and Other Ovarian Tumors					<b> </b>	J J				i	١	١
Puerperal Septicæmia119 A							1	1			١	
Erveineles 128						1 1				l	ı	٠.
Gangrene. 126 Congenital Debility Icterus and Sclerema. 138 Other Accidental Injuries. 145						[ <u>]</u>			٠.	١	١	٠.
Congenital Debility Icterus and Scierema138	3	2								١	١	١.,
Other Accidental Injuries145					1	١٠٠١			٠.	١	١	١.,
Unknown or Not Specified Diseases			1			!	!			١	١	١.,
	<del></del> 3		_			0	_		1	<del> </del>	3	-
Totals												

Death-rate 13.17.

# IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

	AG	E PE	RI	) DE	٠.		SE	<b>x</b> .	COLOR.				2	TAT	IVI	Γ¥.						CON	DITI	L ON.	
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated	Married.	Single.	Widowed.	Not stated.	Totals.
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# TABLE 75.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

			 I	AG	E P	ERIC	ODE	·- -	7		-, -
DEATHS IN ORANGE.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five. Forty-five to fifty.
Scarlet Fever   6	1 1 1	2 1 2 1 2 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1	1 4 4 4 1 1 1 5 5 2		1	3	111111111111111111111111111111111111111	115	114	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Hernia and Intestinal Obstructions.       .86         Cirrhosis of the Liver.       .90         Other Diseases of the Liver.       .92         Inflammatory Peritonitis (Non-Puerperal)       .93         Appendicitis.       .95         Acute Nephritis.       .96         Bright's Disease.       .97         Other Diseases of the Kidneys and Adnexs       .100         Diseases of the Bladder.       .102         Uritene Hemorrhage (Non-Puerperal)       .110	1	i	i	i	2		3	1 2 	1 . 1 2	3	i i

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

	AG	B P	ER	OD	8.		8.63	ĸ.	COLOR.				N	ATI	VII	T.			_				NDIT		
Fifty to fifty-five.	FILLY-IIVE WEALT.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
1	3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11	11	333333333333333333333333333333333333333			41 22 1	1	1 2 2 9 1 1	31 145	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 6 6	15	2				i i i i i i i i i i i i i i i i i i i	1	2 · · · · · · · 2 · · · · · · · · · · ·	33344 	1 1 2 2 2 1 1 1 4 5		233 36 37 37 38 36 36 36 36 36 36 36 36 36 36 36 36 36

TABLE 75.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

		. —		AG	E P	ERIC	DD8	١.				
DEATHS IN ORANGE.	Under one year.	Under one month.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Other Diseases of the Female Genital Organs         114         C           Accidents of Pregnancy         118         A           Puerperal Septiosemia         119         A           Puerperal Septiosemia         121         A           Puerperal Albuminuria and Eclampsia         121         125           Fott's Disease         130         132           Other Diseases of Bones         132         137           Congenital Debility, Icterus and Sclerema         138           Want of Care         138         140           Senile Debility         140         140           Senile Debility         141         142           By Friearms         142         143           Suicide         By Firearms         142           By Firearms         142         143           Other Accidental Injuries         145           Burns by Fire         146         151           Other Accidental Poisoning         151	1 2 23 1 2	1 4	i	1 1 1	1	1			i :	1	1	1
Other Tumors.   153	i		 	:::	:::		:: ::	:: :1		i 	i	

Death rate 20.40.

#### BUREAU OF VITAL STATISTICS.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

	AGI	e Pi	RIC	DE			SE	x.	COLOR.				N	ATIV	ITT.						CON	DITI	L ON.	
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Total.
· · · · · · · · · · · · · · · · · · ·	i		1		· · · · · · · · · · · · · · · · · · ·		1 1 14 11 13 3 13 13 13 11 11	11 31 11 22 11 34 14 11 1	1 4	1 3 1 1 2 2 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i i		· · · · · · · · · · · · · · · · · · ·	1	1					11 1 1 3 2 1 9 1 1 1	1 1 1 2 2 8 1 2 2 1 1 1 1 3 2 1 1 1 1 1 1 1 1 1 1 1	6111		1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

# TABLE 76.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

				AGE	PE	RIO	DS.				
DEATHS IN PASSAIC CITY	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Iwenty to twenty-five.	Twenty-five to thirty.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Typhoid Fever	i	3 4 1 1 1	1 20 5 9	5	 i  2	1	4	1 9	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1	3
Pyæmia and Septicæmia		1	1	1		2		1.		··· ··· ··· 2	i
Diabetes	···ż ····	10  7	6	<b>2</b>		1	2	i.	1 i	··· 2	
Endocarditis. 56 Organic Diseases of the Heart 57 Angina Pectoris. 58 Diseases of Arteries, Atheroma, Aneurism, etc 59 Embolism 60 Varices, Varicose Ulcers, Hemorrhoids. 61	i	i 	1  1 1			1				1 2 	i i
Chronic Bronchitis70		_1	اء ٠٠ - ا				i		i	i	
Broncho-Pneumonia   71				i i	3		i .	1	1	i	1
Cirrnosis of the Liver.         90           Other Diseases of the Liver.         92           Inflammatory Peritonitis (Non-Puerperal).         93           Other Diseases of Digestive System, (Cancer and Tuberculosis excepted).         94           Appendicitis.         95           Acute Nephritis.         96			<sub>i</sub>	1 1	 i	i.	i		i	i	. i

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.—Continued.

	AG	E P	ERI	ODE	3. 		81	ex.	COLOR.	_			:	NAT	riv	TY		_			!  -		NDIT	AL TON.	
Fifty to fifty-five.	Sixty to seventy.	Fifty-five to sixty.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
1	1 1 2 2	1 1 5 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 32 2	2	1	- · · · · · · · · · · · · · · · · · · ·	1114591222 :321222 :15 :5 : :2111181 :1761 :111201331124 :48113116	411548 . 291111 42	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	228997111221111 · 133141 ·25882 ·1326142 ·15	1			3		· · · · · · · · · · · · · · · · · · ·	1 2 2		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1	29 	32899177 : 116 12 23 111 11	311111111111111111111111111111111111111	i i i i i i	2 1 5 5 1 1 1 1 3 3 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6

TABLE 76.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

				AG	E P	ERI	ODE	۶.				_
DEATHS IN PASSAIC CITY.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Bright's Disease	7			1		1	1	1	4.8		1.	1
Accidents of Pregnancy	6 i					••		1			+ +	٠.
Puerperal Hemorrhage11	7							i	111		i	
uerperal Septicæmia	AI	1:::	1				2	î	2		î	
Crysipelas	5 1	. 2					. 4		viv			١
angrene12	6						. 4	40	**			١
Plegmon. Acute Abscess	8						1	1				
Other Diseases of the Skin and Adnexa (129)	-	١.,	1	1	ι					13.		
(Cancer excepted)	7 4	1			<u>.</u>			+ +	2.4	64	++	٠.
Congenital Debility, Icterus and Scierema1	18. 40	20			:::		. +		13		+ +	• •
Vant of Care. 1: Other Diseases Peculiar to Infancy. 14	19 1					1			33		7.	
Other Diseases Peculiar to Infancy	10 3	il			l				100	13	1.1	i
lonilo Dobilitur	1111					l	.0			2.		1
By Poison Suicidé. By Firearms 142 By Drowning 142 Other Accidental Injuries 14	<b>A</b>						. 0			1	1	١
uicidé. } By Firearms } 142 {	<b>D</b>										1	١
By Drowning	F						1	4.4				٠.
ther Accidental Injuries	₩			1			• +	1	1	5.6	1	1
Burns by Fire146	<u>A</u>		5	3	• • •		. 5			10		
Accidental Drowning				1	:::		1	55				• •
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Other Accidental Poisoning				1					1.4		7.3	
Other External Violence	3	1	1	1								
Other External Violence	3	···				::			35	**	6	
Other External Violence	3			···i	:::	::		'n		2 2 2		

Death rate 20.03.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

A.G	E P	ERIC	D8	•		810	x.	COLOR.				1	TAP	IVI	TY.							DITI		
Fifty to fifty-five.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Total.
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i	1 2	2	······································	i		2 28 5 1 1 2 1 8 3 3 1 1 1	1 3 34 1 2 3  1 2 6 1 	i i i i i i i i i i i i i i i i i i i	1 5 62 6 3 1 1  7 6 2			1.1.1	i		1	•		1 1	· · · · · · · · · · · · · · · · · · ·	 1 2 1 5 	14 62 6 3 2  1 8 3 1	4	i	1 52 62 63 44 22 1 10 94 11 22 21 3

# TABLE 77.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

					AG	æ	PE	RIO	DS.					_
DEATHS IN PATERSON.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.	Fifty to fifty-five.	Difter fire to sixty
Typhoid Fever.  Measles.  Searlet Fever.  Whooping Cough Diphtheria and Croup. Influenza. Pysemia and Septicemia. Pysemia and Septicemia. Pysemia and Septicemia. Pysemia and Septicemia. Pysemia and Septicemia. Pysemia and Septicemia. Pysemia and Septicemia. Pysemia and Septicemia. Pysemia and Septicemia. Pysemia and Septicemia. Pysemia and Septicemia. Pysemia and Septicemia. Pysemia and Septicemia. Pysemia and Septicemia. Pysemia and Control and Liver. Pysemia and Control and Liver. Pysemia and Control an	1	8 3	1 5 30 1	1 15 	2 :: 1 :1 :3	5 1 1	16	i	3	1  2 	3   1 	3		
Other Diseases of the Circulatory System	36 39 2 70 71 1 72 8 73 74 2	12 14 21		3			٠.		1		1 7	-		i :
Pulmonary Emphysema	A B 1				i	3	i i	i	::	····i	i i		i	

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.—Continued.

<b>A</b>	GE F	EFI	DB	•	8E	<b>x</b> .	COLOR.	1			▲G	B P	ER:	OD	6.						NDIT		
Dieug w severaj:	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other Foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	
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2 1 3 5	2 3 6 15	 4 1	   	::	11 3 22 94 2 2 1 2 6 2	19 64 4	2 1	31 86 4	1 2 6	i	1 8 1	2 6 32	6	7 1	 2		1 10 		2 1 3 3 6 62 3 1 2 1 6	28 60 1 2	3 3 34 2	2	. 1
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TABLE 77.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

	_				<b>A</b>	G 18	PE	RIO	D6					-=
Other Dis's of Stomach (Cancer excepted)	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.	Fifty to fifty-five.	Fifty-five to sixty.
Other Dis's of Stomach (Cancer excepted)81	1	2	2	_	-				1		1	1	_	1
Infantile Diarrhosa, Athrepsia	9	65	17				1	٠.			٠.	٠.,		٠.
Dysentery		··i	· · · i	• •	•••		•••	1		• • •	. 2	• •	· ;	3
Hernia and Intestinal Obstructions86	l''i	١	l				i		i	• • •	• •	ان		3
Other Diseases of the Intestines					i	1	]			: : :				ĭ
Acute Yellow Atrophy of the Liver				٠.	٠.	• • •	٠.'	1	· .	· · ·	٠.	٠.:	ا <u>.</u> .	٠.
Riliary Calculi 01				٠	• •	٠٠,	٠٠;	• •	2	٠	• •	3	6	1
Other Diseases of the Liver 92	··i			٠.	• •	· i	٠.,	• •	. ;	٠٠,	. ;	- 1	::	••
Inflammatory Peritonitis (Non-Puerperal)93	i			i	ż	2	3	· 6	3	2	3	i	2	i
Appendicitis98				٠.٠	ī		2		ĭ		ĭ		i	
Acute Nephritis96	1	3	1	2		1	2	٠.	1	2	2		. 1	2
Other Diseases of the Kidneys and Adneys 100		1			• •	•••	5	2	7	7	6	8	9	9
Diseases of the Bladder. 100		: • • •		. • •	• •	•••	i.	• •	• •	• • •	•		٠٠١	٠;
Other Diseases of the Uterus				i : :	•	::	i	• • •		• • •				
Accidents of Pregnancy	i		1						2					::
Puerperal Septicæmia119 A				١	٠.		1			1	'	٠	]	
Francisca Albuminuria and Eciampsia121				. :	• • !	• •	1	••	· • [		• •			• •
Gangrane 126	1	1		. 1	• •	• •	• •	• •		• • •	• • •	. ;	٠, ا	• •
Phlegmon. Acute Abscess					i					• • •		-	-	• •
Psora		1 i		l.:	١.٠		::!							::
Other Dis's of the Skin and Adnexa (188)	·									i				
Maliormations	3	4			٠.		٠.	٠.١	1			!	1	٠.
Want of Care. 136	08	31	4		٠.	• •	• •	٠.,		• • •	• •	1	٠٠١	••
Other Diseases Peculiar to Infancy	6			١٠.	٠.			٠٠,	•					••
Senile Debility 141	١			l::	l::			:::	i					ż
By Poison.				١				1		3	1	2	1	
By Strangulation.	₹				٠.	]		• •	1	٠.,	1		۱۰۰۱	••
By Cutting Inst'm'nts	$ \cdots $	• • •		١٠٠	٠.	• • •	• •	• •	• •	1	• •			٠;
By Drowning.				١٠.	• • •			٠٠,		• • •	i	• •	٠i	1
Fractures143	<b> </b>		: : <b>:</b>	l::					i	· i			i	::
Other Accidental Injuries14	·	1	4	4	2	5	3	3		5	1	3	2	1
Burns by Fire			4	2		• • •		1		٠٠.		2		٠.
Accidental Drowning 146		• • •				ا: ا	• •	• •	• •	ĭ	$ \cdot\cdot $		$ \cdot \cdot $	1
Inanition. 149 F	1		1	2	3	1	• •	• •	• • •	3	1:	$ \cdot\cdot $		• •
Inhalation of Noxious Gases (Suicide excep'd 150			:::	1::	l::	i	i	i		î	. 1		ان	• •
Other Accidental Poisoning	·		J					ī		î				
Uther External Violence	<b> </b>				• •			1	1		2		1	1
Drongy 183			· · ·					• •				$ \cdot \cdot $	· ·	٠;
Asphyxia-Cyanosis. 156	i :				• •	• •	• •	• •	• • •	• • •	$ \cdot\cdot $	• •	۱۰۰	1
Abdominal Tumor. 156				::								•	::	• •
Other Tumors	) <u></u>		<b> </b>											i
Unknown or Not Specified Diseases161				١	1		1		1	2	1	2	2	1
Totals	143	225	137	58	34	46	61	67	88	112	80	85	01	<u></u>
Death-rate 15 28						20	-	٠.	30		301	30	<u> </u>	30

Death-rate 15 28

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

AG	B P	ERIC	DS.	_	SE	<b>x</b> .	COLOR.				N	IATI	VIT	¥.				_			DIT		
Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totala
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ż	• • •		: :	::	11 1 8 14	•••	····i··	5 1 5 15	···ż	::	ı.		· :	·i	· ·		···ż	···i	6	•••	• • •	···ż	
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3 2	7 2	1	::	::	41 6	7	3	25 8 1 8	2	ļ: :	1	5 2	4	1	• •	1	4	i	14	1 22 10	1	······································	
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TABLE 78.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

				AG	E P	ERI	ODE	s. 				
Typhoid Fever	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Typhoid Fever				1								1
Measles	• • •		1	1	٠٠;	· ;	• •		• •	٠.	٠٠,	٠.
Diphtheria and Croup.			14	ន់	i		• •		::;			::
Pyæmia and Septicæmia14		٠.,				1	• •		!			
Tuberculosis of the Lungs	• • •	1	1	1	1	1	5	1	3	• •	1	1
Cancer of the Stomach and Liver		•••	• • •	• • •	1	١	• •	· i	••	• •	• •	• •
Of the Female Genital Organs 25							::			i	::1	• : :
Others										٠.	!	
Alcoholism (Acute or Chronic)34							٠.		• •	1	: • :	٠.
Carebral Hamorrhage and Congestion 42		Z	1	1			• • •		٠.,	• • •	٠.	٠;
Paralysis Without Indicated Cause						! :	::				• •	î
General Paralysis48	<u>.</u>			i					;			
Convulsions of Infants49	3	3	5								٠٠,	٠.
Tetanus		· · ·	1		• • •		٠.,	• •	• •	• •	٠.	٠.
Organic Diseases of the Heart		i i		1		3	::;		i		i	• •
Diseases of Arteries, Atheroma, Aneurism, etc 59	٠					1		::		,		
Hemorrhage				ا. ٠ ٠			• • '		!		1	٠.
Diseases of the Unrulatory System		· · ·	•••	1			• • !	• •	٠٠,		• •	٠.
Acute Bronchitis		ı i							::		::	• •
Broncho-Pneumonia71		3	1	i	1						;	
Pneumonia	1	7	3	٠			1			3	3	٠:
Other Dis's of Stemach (Cancer excepted) 81				• • •	· • •	$ \cdot \cdot  $	• •	••	• •	••!	• •	1
Infantile Diarrhea, Athrensia	4	26	4									• •
Diarrhœa and Enteritis83		ī	·		:::						::	i
Hernia and Intestinal Obstructions86		1	· • •				• • •	٠٠١	٠.		٠.,	٠.
Inflammatory Positonitis (Non-Puernaral)		1	• • •		• • •	. • •	• •	· i :	٠.,	•	٠.,	1
Appendicitis 95					· i		::;	1			• •	•
Acute Nephritis96				i					1,	1		i
Bright's Disease97			1			· - ;	• • [		1,			٠.
Assidents of Programmy			• • •	•••	• • •	٠٠١	• •	• •		• •	• •	٠.
Puerperal Septicæmia	1				: : :		i			i	• •	::
Gangrene126	1											::
Psora		1			· · ·	• •	٠.	••	• •	• •	• •	٠.
Congenital Debility Interns and Solarems 138	7	Z	···i	• • •	• • •		• •	••	• •	••!	٠٠!	• •
Want of Care	·	ī		: : · ·			• •		Ξì			::
Other Diseases Peculiar to Infancy	6									• •		٠.
Suicide or Attempt at Suicide by Firearms142 D		· • • i		;	٠٠,	٠.	٠;		اړ٠	٠,:		1
Burns by Fire	1		• • •	1	. 2	11	3	4	4	1	Z	Z
Sunstroke and Freezing		::::			: : :				::	i		::
Accidental Drowning				!				1		[	1	
Other Tumors	· • •	· • • .	• • •		• • •		• •	٠.	٠٠	.;	• •	1
Unknown or Not Specified Diseases	···	····	···	· · · ·	• • •	<u>::</u> `	<u>··</u>	٠٠١	<u>:: </u>	1	• •	
Totals.	24	60	35	19	8	7	10	6	11	11	9	12
Death-rate 12.70.						<u> </u>						

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

	AG	E P	ERI	ODI	5.		81	x.	COLOR.				N	AT	(VI	TY.							DIM		
Fifth to mity-nee.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	
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TABLE 79.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

				AGI	C PE	RIC	DS.		. •			_
DEATHS IN PHILLIPSBURG.	Under one month.	Under one year.	One to five.	live to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Typhoid Fever	1	1 1 1	1	i		· · · · · · · · · · · · · · · · · · ·		i	··· 2	··· ··· ···		i
Cerebral Hemorrhage and Congestion         4           Softening of the Brain.         4           Paralysis Without Indicated Cause.         4           General Paralysis.         4           Convulsions of Infants.         4           Tetanus.         5           Pericarditis.         5           Organic Dseases of the Heart.         5           Angina Pectoris.         5           Embolism.         6           Other Diseases of the Circulatory System.         6           Acute Bronchitis.         6	3	2	1	2	i i		1  1  1				i	

	AG	E PI	ERI	ODE	3.		SE	x.	COLOR.				2	TAP	IVI	TY.					_		OCIA		
rucy to mey-nee.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Tetala.
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## TABLE 79.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

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	_		1	AG	E P	ERIC	DS.				<u> </u>
DEATHS IN PHILLIPSBURG.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Forty to forty-five.	Forty-five to fifty.
Chronic Bronchitis.         70           Broncho-Pneumonia.         21           Pneumonia.         72           Diseases of the Pharynx.         79		1	1			1					
Other Diseases of the Stomach (Cancer excepted). SI Infantile Diarrhoes, Athrepsia		6			: : !		i		• • •		: ::
Other Diseases of the Intestines	1		:::	• • • •			i	••!•	i.	i i	i
Other Diseases of the Kidneys and Adnexa100 Diseases of the Prostate	)	ļ:::	l:::		• • •	::	::	i .			
Puerperal Hemorrhage         117           Puerperal Septicæmia         119 A           Puerperal Albuminuria and Eclampsia         121           Gangrene         126		1	1						!.	i	
Malformations. 137 Congenital Debility, Icterus and Scierema. 138 Want of Care. 138 Other Diseases Peculiar to Infancy. 140	1 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2		:::	· · · ·		• •		· · ' ·		
Senile Debuity				•	<b>ż</b>	i	• •		• • •	i j	i i
Abdominal Tumor	· <u>··</u> ·	<u> </u>	· · · ·	i 	4	$ \cdot\cdot $	٠.,		• •	i	
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ruty to mty-nve.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totale
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TABLE 86.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

				AG	E PI	RIC	od8	•				=
DEATHS IN PLAINFIELD.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Typhoid Fever	22	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	1	1 22 2	1 1 1 1 1 1 1	4	2	<b>5</b>	1 4	1	111111111111111111111111111111111111111
Broncho-Pneumonia.         71           Pneumonia.         72           Pleuripy.         73           Congestion and Apoplexy of Lungs         74           Asthma.         76           Other Diseases of the Respiratory System         77           Diseases of the Esophagus         79           Ulcer of Stomach         80           Other Diseases of Stomach (Cancer excepted)         81           Infantile Diarrhœa, Athrepsia.         85           Diarrhœa and Enteritis.         83						::  ::		  1 1	·i			i

	AG	E PE	RI	ODE	s.	_	SE	x.	color.				1	TAN	·IV	TY.							NDIT	ION.	
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
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TABLE 80.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

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DEATHS IN PLAINFIELD.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Hernia and Intestinal Obstructions			1		1	i	i	· · · · · · · · · · · · · · · · · · ·			1

Death rate 15.84.

	AGI	C PI	ERI	OAI	5.		SE	х.	COLOR.	_			1	TAR	171	TT.	•					co	NDIT	AL. ION.	
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
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## TABLE 81.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

	_		_	AG	E PI	CRIC	DDB	١.				
DEATHS IN RAHWAY.	Under one month.	Under one year.	One to five.	Five to ten .	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	- 1		Forty-fiv
Typhoid Fever.       1         Whooping Cough.       7         Diphtheria and Croup.       8         Ruberculosis of the Lungs       22 A         Sancer of the Stomach and Liver.       25 B         Pharmetics       28			1	2			-			_		-
Whooping Cough7	. : .	1		]				٠				١.,
Diphtheria and Croup			1					1				١.
Tuberculosis of the Lungs	!		1		1		1			1	2	١.
Cancer of the Stomach and Liver						۱ ا		1				i i
Diabetes         28           simple Meningitis         39           erebral Hemorrhage and Congestion         42           oftening of the Brain         43						1		!				١.
Simple Meningitis		1	3	i								1.
Perebral Hemorrhage and Congestion 42		_		-						٠٠,		1
Softening of the Brain. 43								•••			• •	١.
Paralysis Without Indicated Cause 44		• • •							•••	٠٠.	• •	
Canaral Paralysis	• • • •	• • • •							• • •	• • •	• •	
Sortening of the Brain.  Paralysis Without Indicated Cause.  44  Feneral Paralysis.  45  Convulsions of Infants.  49  Endocarditis.  56		• • •							• • •		٠.	1.
Condensations of Imanes	- 1	-					• •	• •	• •		٠.	
Chiquearantis	• • •	• • •		• • • •				ا: ا			• •	
Organic Diseases of the Heart	• • • }	1	• • •		• • •		• •	7	• • •		٠.	1.
acute bronchius	• • •							• •			٠.	1.
Broncho-Pheumonia,	! ر ٠٠٠	• • :	1					• •	• •		٠.	
Broncho-Pneumonia.   71	- 1	1									٠.	
?leurisy	]			1						!		١.
Congestion and Apoplexy of Lungs										]	٠.	١.
Fangrene of Lungs. 76 Other Diseases of Stomach (Cancer excepted). 81 Infantile Diarrhees, Athrepsia. 82 Diarrhee and Enteritis. 83	'						[					1
Other Diseases of Stomach (Cancer excepted) 81			1						!		٠.	١.
Infantile Diarrhœa, Athrepsia		1	2	1						!		١.
Diarrhœa and Enteritis										!		1.
Hernia and Intestinal Obstructions	1										•	I.
nflammatory Peritonitis (Non-Puerneral). 93				1	··i					•	• •	1.
cute Nenhritis 98	•••				-		· i		••	٠.١	••	١.
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Diseases of the Bladder 102		• • • •			•••			•	••		٠.	1
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Vent of Care 120	5	. 0			• • • •	١٠٠١	•••	• • •	• •	• • •	• •	1.
Other Disease Penuliar to Infanor 140	5	• • •			• • •				• •		٠.	1.
Bright's Disease.       97         Diseases of the Bladder.       102         Jangrene.       128         Longenital Debility Icterus and Sclerema.       138         Want of Care.       139         Other Diseases Peculiar to Infancy.       140         Senile Debility.       141         Other Accidental Injuries.       148         Accidental Drowning.       148         Unknown or Not Specified Diseases       161	. 2	• • •		• • • •	• • • •	• •	~ ·	• •	• •	· · ·	• •	1.
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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST. 1903.

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Futy to nity-nve.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
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## TABLE 82.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

·				AG:	E P	ERI	ODE	3.				
DEATHS IN RED BANK.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Diphtheria and Croup	3	1 1 1	1 1 1 1 1 1 			1	1	i	3	1	i i i i	
Totals.	3	7	5	0	2	<b>-</b> 2	3	3	6	1	5	2

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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	they we may man	Fifty-five to sixty,	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married,	Single.	Widowed.	Not stated.	Thetale
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$		4	2	9	13	3	2	0	42	30	15	61	0	1	3	6	7	0	0	0	0	0	32	26	13	- 1	7

TABLE 83.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

DEATHS IN SALEM CITY.	_
Diphtheria and Croup	ě
Diphtheria and Croup.	
Influence	
Pynmia and Septicnmia.   1	1.:
General Paralysis. 45 Non-Puerperal Eclampsia. 48 Tetanus. 50 Crganic Diseases of the Heart. 57 Angina Pectoris. 58 Diseases of Arteries, Atheroma, Aneurism, etc. 59 Diseases of Arteries, Atheroma, Aneurism, etc. 59 Diseases of Arteries, Atheroma, Aneurism, etc. 59 Diseases of Arteries, Atheroma, Aneurism, etc. 59 Diseases of the Larynx and Thyroid Body. 68 1 Acute Bronchitis. 70 Chronic Bronchitis. 70 Pneumonia. 72 1 1 1 Congetstion and Apoplexy of Lungs. 74 Infantile Diarrhna, Athrepsia. 52 Diarrhna and Enteritis. 83 Bright's Disease. 97 1 1 Diseases of the Bladder. 102 Erysipelas. 125 Gangrene. 126 Malformations. 137 Concenital Debility Icterus and Sclerema. 138 Senile Debility Leterus and Sclerema. 138 Sunstroke and Freesing. 147 Accidental Drowning. 148 Dropsy. 185 Unknown or Not Specified Diseases. 161	1 5
General Paralysis. 45 Non-Puerperal Eclampsia. 48 Tetanus. 50 Crganic Diseases of the Heart. 57 Angina Pectoris. 58 Diseases of Arteries, Atheroma, Aneurism, etc. 59 Diseases of Arteries, Atheroma, Aneurism, etc. 59 Diseases of Arteries, Atheroma, Aneurism, etc. 59 Diseases of Arteries, Atheroma, Aneurism, etc. 59 Diseases of the Larynx and Thyroid Body. 68 1 Acute Bronchitis. 70 Chronic Bronchitis. 70 Pneumonia. 72 1 1 1 Congetstion and Apoplexy of Lungs. 74 Infantile Diarrhna, Athrepsia. 52 Diarrhna and Enteritis. 83 Bright's Disease. 97 1 1 Diseases of the Bladder. 102 Erysipelas. 125 Gangrene. 126 Malformations. 137 Concenital Debility Icterus and Sclerema. 138 Senile Debility Leterus and Sclerema. 138 Sunstroke and Freesing. 147 Accidental Drowning. 148 Dropsy. 185 Unknown or Not Specified Diseases. 161	2
General Paralysis. 45  Non-Puerperal Eclampsia. 48  Tetanus. 50  Organic Diseases of the Heart. 57  Angina Pectoris. 58  Diseases of Arteries, Atheroma, Aneurism, etc. 59  Diseases of Arteries, Atheroma, Aneurism, etc. 59  Diseases of Arteries, Atheroma, Aneurism, etc. 59  Diseases of Arteries, Atheroma, Aneurism, etc. 59  Diseases of the Larynx and Thyroid Body. 68  Chronic Bronchitis. 70  Pneumonia. 72  Infantile Diarrhna, Athrepsia. 52  Diarrhna and Enteritis. 53  Bright's Disease. 97  Diseases of the Bladder. 102  Erysipelas. 125  Gangrene. 126  Malformations. 137  Concenital Debility Icterus and Sclerema. 138  Senile Debility Icterus and Sclerema. 138  Senile Debility. 141  Senile Debility. 147  Accidental Drowning. 148  Dropsy. 185  Unknown or Not Specified Diseases. 161	1
General Paralysis. 45  Non-Puerperal Eclampsia. 48  Tetanus. 50  Organic Diseases of the Heart. 57  Angina Pectoris. 58  Diseases of Arteries, Atheroma, Aneurism, etc. 59  Diseases of Arteries, Atheroma, Aneurism, etc. 59  Diseases of Arteries, Atheroma, Aneurism, etc. 59  Diseases of Arteries, Atheroma, Aneurism, etc. 59  Diseases of the Larynx and Thyroid Body. 68  Chronic Bronchitis. 70  Pneumonia. 72  Infantile Diarrhna, Athrepsia. 52  Diarrhna and Enteritis. 53  Bright's Disease. 97  Diseases of the Bladder. 102  Erysipelas. 125  Gangrene. 126  Malformations. 137  Concenital Debility Icterus and Sclerema. 138  Senile Debility Icterus and Sclerema. 138  Senile Debility. 141  Senile Debility. 147  Accidental Drowning. 148  Dropsy. 185  Unknown or Not Specified Diseases. 161	1
General Paralysis. 45 Non-Puerperal Eclampsia. 48 Tetanus. 50 Crganic Diseases of the Heart. 57 Angina Pectoris. 58 Diseases of Arteries, Atheroma, Aneurism, etc. 59 Diseases of Arteries, Atheroma, Aneurism, etc. 59 Diseases of Arteries, Atheroma, Aneurism, etc. 59 Diseases of Arteries, Atheroma, Aneurism, etc. 59 Diseases of the Larynx and Thyroid Body. 68 1 Acute Bronchitis. 70 Chronic Bronchitis. 70 Pneumonia. 72 1 1 1 Congetstion and Apoplexy of Lungs. 74 Infantile Diarrhna, Athrepsia. 52 Diarrhna and Enteritis. 83 Bright's Disease. 97 1 1 Diseases of the Bladder. 102 Erysipelas. 125 Gangrene. 126 Malformations. 137 Concenital Debility Icterus and Sclerema. 138 Senile Debility Leterus and Sclerema. 138 Sunstroke and Freesing. 147 Accidental Drowning. 148 Dropsy. 185 Unknown or Not Specified Diseases. 161	1 4
General Paralysis. 45  Non-Puerperal Eclampaia 48  Tetanus. 50  Organic Diseases of the Heart. 57  Angina Pectoris. 58  Diseases of Arteries, Atheroma, Aneurism, etc. 59  Diseases of Arteries, Atheroma, Aneurism, etc. 59  Diseases of Arteries, Atheroma, Aneurism, etc. 59  Diseases of Arteries, Atheroma, Aneurism, etc. 59  Diseases of the Larynx and Thyroid Body. 68  Chronic Bronchitis. 70  Pneumonia. 72  Infantile Diarrhna, Athrepsia. 72  Diarrhna and Enteritis. 83  Bright's Disease. 97  Diseases of the Bladder. 102  Erysipelas. 125  Gangrene. 126  Malformations. 137  Consenital Debility Icterus and Sclerema. 138  Senile Debility Icterus and Sclerema. 138  Sunstroke and Freesing. 147  Accidental Drowning. 148  Dropsy. 185  Unknown or Not Specified Diseases. 161	*
General Paralysis. 45  Non-Puerperal Eclampaia 48  Tetanus. 50  Organic Diseases of the Heart. 57  Angina Pectoris. 58  Diseases of Arteries, Atheroma, Aneurism, etc. 59  Diseases of Arteries, Atheroma, Aneurism, etc. 59  Diseases of Arteries, Atheroma, Aneurism, etc. 59  Diseases of Arteries, Atheroma, Aneurism, etc. 59  Diseases of the Larynx and Thyroid Body. 68  Chronic Bronchitis. 70  Pneumonia. 72  Infantile Diarrhna, Athrepsia. 72  Diarrhna and Enteritis. 83  Bright's Disease. 97  Diseases of the Bladder. 102  Erysipelas. 125  Gangrene. 126  Malformations. 137  Consenital Debility Icterus and Sclerema. 138  Senile Debility Icterus and Sclerema. 138  Sunstroke and Freesing. 147  Accidental Drowning. 148  Dropsy. 185  Unknown or Not Specified Diseases. 161	
Non-Puerperal Eclampsis	1
Tetanus.	1::
Organic Diseases of the Heart.         57           Angina Pectoris.         58           Diseases of Arteries, Atheroma, Aneurism, etc.         59           Diseases of Arteries, Atheroma, Aneurism, etc.         59           Diseases of Arteries, Atheroma, Aneurism, etc.         59           Diseases of the Larynx and Thyroid Body.         68           Acute Bronchitis.         70           Pneumonia.         72           Chronic Bronchitis.         72           Pneumonia.         72           Infantile Diarrhna, Athrepsia.         82           Diarrhna and Enteritis.         83           Bright's Disease.         97           1         1           Diseases of the Bladder.         102           Erysipelas.         125           Gangrene         126           Malformations.         137           Consenital Debility Icterus and Sclerema.         138           Sunstroke and Freesing         147           Accidental Drowning.         148           Droposy.         185           Unknown or Not Specified Diseases.         161	
Angina Pectoris   Diseases of Arteries, Atheroma, Aneurism, etc.   58   Diseases of Arteries, Atheroma, Aneurism, etc.   59   Diseases of Arteries, Atheroma, Aneurism, etc.   59   Diseases of the Larynx and Thyroid Body   68   1   Acute Bronchitis.   70   Chronic Bronchitis.   70   The University of Lungs   72   1   The University of Lungs   74   The University of Lun	
Diseases of Arteries, Atheroma, Aneurism, etc	
Diseases of the Larynx and Thyroid Body	
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Bright's Disease. Diseases of the Bladder.  Erysipelas.  Gangrene.  126  Malformations.  Congenital Debility Icterus and Sclerema.  137  1   Congenital Debility Icterus and Sclerema.  138  3   Semile Debility.  Sunstroke and Freesing.  147  Accidental Drowning.  148  Dropsy.  Unknown or Not Specified Diseases.  161	
Bright's Disease. Diseases of the Bladder.  Erysipelas.  Gangrene.  126  Malformations.  Congenital Debility Icterus and Sclerema.  137  1   Congenital Debility Icterus and Sclerema.  138  3   Semile Debility.  Sunstroke and Freesing.  147  Accidental Drowning.  148  Dropsy.  Unknown or Not Specified Diseases.  161	
Bright's Diseases of the Bladder. 102  Erysipelas. 125  Gangrene. 126  Malformations. 137 1  Congenital Debility Icterus and Sclerema. 138 3 1  Senile Debility. 141  Sunstroke and Freesing. 147  Accidental Drowning. 148  Dropsy. 185  Unknown or Not Specified Diseases. 161	
Bright's Diseases of the Bladder. 102  Erysipelas 125  Gangrene. 126  Malformations. 137 1  Congenital Debility Icterus and Sclerema. 138 3  Senile Debility . 141  Sunstroke and Freesing. 147  Accidental Drowning. 148  Droppsy. 185  Unknown or Not Specified Diseases. 161	1.:
Diseases of the Bladder	. 1
Erysipelas	[ • •
Cangrene	
Malformations.       137         Consenital Debility Icterus and Sclerema.       138         Senile Debility.       141         Sunstroke and Freesing.       147         Accidental Drowning.       148         Dropsy.       155         Unknown or Not Specified Diseases.       161	
Sunstroke and Freesing	
Sunstroke and Freesing	1
Sunstroke and Freesing	1
Accidental Drowning. 148	
Dropsy	
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Totals 5 10 6 1 0 2 4 4 3 2 2	

Death-rate 17.21.

#### BUREAU OF VITAL STATISTICS.

		AG	E P	ERI	OD	s.		81	ex.	COLOR.					TA7	riv:	TY						CON	DCIA		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
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TABLE 84.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

				AG	E Pl	ERI	ODE	3.				_
DEATHS IN SOUTH AMBOY.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Typhoid Fever		i	î		i 1 1	::	2	3	::	2	  	ì
Of the Stomach and Liver   25   E			i		i						1  i	1
General Paralysis.         44           Other Forms of Insanity.         46           Convulsions of Infants.         48           Organic Diseases of the Heart.         57           Angina Pectoris.         56           Other Diseases of the Circulatory System.         56           Acute Bronchitis.         68		:::	:::		   	 	 	::	::	::  ::	::	
Other Diseases of the Circulatory System		1 7 1 3	2	1 1			i		:-:	1		1
Bright's Disease.         9°           Erysipelass         12°           Malformations.         13°           Congenital Debility, Icterus and Scierema.         13°           Want of Care.         13°           Senile Debility.         14°           Suicide or Attempt at Suicide.         142°           By Poison         142°           Fractures.         14°           Other Accidental Injuries.         148°           Burns by Fire.         148°	7 5 6 8 1	i									::	j
Sunstroke and Freezing. 14' Accidental Drowning. 14' Other External Violence. 15'	3				i		2	i	i		i	i
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IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

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Fifty to fifty-five.	Sirty to someth	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white	unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married,	Single.	Widowed.	Not stated.	Tetals.
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## TABLE 85.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

				AG	E PI	ERIC	)D8	١.				_
DEATHS IN SUMMIT.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Diabetes.       28         Simple Meningitis.       39         Progressive Locomotor Ataxia.       40         Cerebral Hemorrhage and Congestion       42         Convulsions of Infants       49         Endocarditis.       56         Organic Diseases of the Heart       57         Angina Pectoris.       58         Acute Bronchitis.       69         Broncho-Pneumonia.       71         Other Diseases of the Respiratory       72         System.       77         Other Diseases of Stomach (Cancer Excepted).       81         Diarrhœa and Enteritis.       83         Other Diseases of the Liver       92         Infammatory Peritonitis Non-Puerperal.       93         Acute Nephritis.       96         Brights' Disease.       97         Diseases of the Bladder.       102         Puerperal Septicæmia       119         Aulformations.       137         Congenital Debility, Icterus and Sclerema       141	i	2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i	1 i	2	2	1 5	i i i i i	i i	1	1
Suicide or Attempt   By Poison   142   A at Suicide   By Strangulation   143   C Other Accidental Injuries   145   Totals   Doubt pate 14 28						3				i 5	4	··· 4

Death rate 14.28.

#### BUREAU OF VITAL STATISTICS.

	AG	E PI	cri	ODE	в.		SE	x.	color.					TAV	IVI	TY.						co	BOCI	TION	
ruty w mry-uve.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totale
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## TABLE 86.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

				AG	E PI	ERIC	DD8	١.			_
pybhoid Fever	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Forty to forty-five.	to the state of th
whoid Fever	—'					-	一,	<del>-</del> -	1	<u> </u>	- -
hooping Cough	 	i	i							1.	ì
iphtheria and Croup	٠١		6	2	• • • '		!				
yæmia and Septicæmia14	٠١	'	٠	!	· ,	٠.	}			1	L
uber-(Of the Lungs	٠٠٠,		٠٠, ١		٠٠٠,	2,	4,	2	5 2	2 4	1
losis (Of the Meninges B	٠.,	٠٠٠,	1		;	• •		٠.,			٠,
Of the Stomash and Liver	Z	'	• • •	• • • •	• • • ]	• •	٠.,	· • ' ·	!	,	٠١
Of the Femele Cenitel Organs	٠٠٠;		• • • •		'	• •	···¦	• • •	• • ! • •	• •	٠١
Of the Breast.				•	:::'		:::				٠١
Others								• • •	i		٠.
abetes		:							i		•
coholism (Acute or Chronic)34						!			. II.		:
her Chronic Poisonings							1				.
nple Meningitis39		3	2	1	1						
ogressive Locomotor Ataxia	٠								1	Ш.,	
rebral Hemorrhage and Congestion42	- 1										
ralysis Without Indicated Cause44				;			!		!	.	٠.
on-Puerperal Eclampsia	• • •		٠٠:	,	• • •	• •	1,		'	٠,٠٠	٠
onvuisions of Imanes	*			•••	• • •		;		• •   • •	٠	٠
than Disagree of the Nervous System 52 C	• • •		•••		• • •		• •	•	· i i		٠
ndocarditis.	· • •			• • •	• • •				,		٠
rganic Diseases of the Heart						1!	i	i'i		i	i
iseases of Arteries, Atheroma, Angurism, etc 59				1							•
mbolism60		1					!				
emorrhage65						'			1	ι'	
aronic Bronchitis		ا ـ ا	<u>.</u> '			'				· į	
roncho-Pneumonia	• • •	7	2					-::	٠ . ا	٠	
neumonia	• • •	2	4	• • •	• • •	••'	3	3	5 4	ł, 2	2
eunsy	• • • •	• • •	• • • •	•••	• • •	٠٠,	• •	1	· • i • •	٠	•
ther Diseases of the Respiratory System 77 R	• • • •			• • • •	• • • •				٠٠,٠٠	1::	i
iseases of the Esonhagus. 79 B.				• • • •		• • •	::			•	•
ther Diseases of Stomach (Cancer excepted) 81											١.
fantile Diarrhœa, Athrepsia	1	12	3								
arrhœa and Enteritis											١.
ysentery					1	i				٠ - ا	٠١
erma and Intestinal Obstructions86	• • •				• • •				• •   • •	<u>.</u> ۱۰	ا:
ther Discourse of the Liver	• • •			•••	• • •	• •	• •		• •   • •	1	Ł
demmeters Peritopitis (Non-Puerperal)	• • • •				•••;	,	.:	•••	• •   • •	٠ ا٠	٠١
mammawry r erromus (Non-r derperar)	• • •	: ;		· • •	1	• •	+	• •		١٠.	٠١
right's Disease	•••			• • •	• • •				:: :;i	· •	۱
ther Diseases of the Kidneys and Adneys 100						i			:: . <b>'</b>	1.*	۱:
ccidents of Pregnancy	i										:
uerperal Hemorrhage	ا آ								i	i ::	.
uerperal Septicæmia				i		!	1		]	.	.
rysipelas125						i			2	2	١.
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angrene											
hlegmon. Acute Abscess. 128 alformations. 137 ongenital Debility Icterus and Sclerema. 138	ا ر ٠٠٠			• • • i	• • •	1		$\cdot \cdot  \cdot$	• • • •	.	٠١

- 1				OD	3. 		SE	x	COLOR.					TAT	IVI	TY.						CON	OCIA	on.	
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totale
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## TABLE 86—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

	_			AG	E P	ERI	OD	8.				1-
DEATHS IN TOWN OF UNION.	Under one month.	Under one year.	One to five,	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Want of Care	1 9									7		.,
Senile Debility. 141	-		100	111	111					5.3		
Sujeide By Poison	200	000	000	17.	000	03	33		î	2	66	0.5
or By Asphyxia.  Attempt By Firearms.  at Suicide. By Cutting Instruments.			Car.	0.0		100						
Attempt By Firearms D							1				1	
at Suicide. By Cutting Instruments   E	69.2	200				274	+ 2		52	2.3		
Other Accidental Injuries	+4 +	124	1	115		1	4.4	1	3	2	1	
Burns by Fire				- 1			10				1.4	
Exhaustion-Cachexia						114	1	80	1.0			
		14.9		400			2.		12	* -		
Unknown or Not Specified Diseases. 161		100		***	1	1.7		i	**		1	
Totals	22	30	23	6	- 4	-	14	10	15	10	14	Q

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST. 1903.

	AG:	E PI	RIC	DD8			8E	x.	COLOR.				N	AT	IVI	ry.					•	SO	CIAL		
Fifty to fifty-five.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
1 1	1 2	i i i i	1  1 2	i 				1 1 1  2 1 1 1 1	1	1 2 1 1 1  6 2			1 1 1 3	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	··· ·i ·· ·2 ·· ·· ·· ·· ··		1 1 1  6  2	1 2  2  4 1 1 1 1 	 i  3 1	``i	1 2 2 1 2 3 1 13 2 3 1 13 3

TABLE 87.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

	_				AG	E P	ERI	ОД	3.			
DEATHS IN TRENTON	Tradon one month	Onder one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.
Typhoid Fever	.1	- -		—	1		10	8	7	5	3	5
yphold rever.  kearlet Fever  Whooping Cough.  Diphtheria and Croup.  niluenza.  yæmia and Septicæmia  intermittent Fever.  Dof the Lungs.	7	i	9	3	···i		::			::	::	$\cdot \cdot   \cdot$
Diphtheria and Croup	.8		1	10		···ż			1		1	.
nfluenza	9	• •   •	• • •	• • •	• • •		. •	.:	.:	٠;	2	1.
ntermittent Fever	19		• •				· i	1	1	1		4
Of the Lungs.  Of the Meninges.  Of the Peritoneum.	A		ż				9	23	27	22	19	25
of the Meninges. Of the Peritoneum. Of Other Organs.	<u> 男</u>	• •	3	3			• •		1	1		
Of Other Organs	E	٠٠ ٠	• • •		···i		· i	• •	1	••	· i	• •   •
or Of Other Organs	ABCEF23AB				î	:::				::		
crofula	23		1								$\cdot \cdot  $	
Of the Mouth	즘	•• •	• • •			• • •	• •		1	••	٠.	٠ ن ٠
Of the Intestines and Rectum	B C D	٠:۱:	• • •	• • •	• • •	• • • •	• •	::		••	1	1
Of the Female Genital Organs	Ď.								i		î	3
Of the Mouth. Of the Stomach and Liver. Of the Intestines and Rectum. Of the Female Genital Organs. Others.	E 26	٠. .	• • •			'			٠.		2 1 1 1	• •
heumatism	26	•• •	• • •	• • •	· · · i		• •	$ \cdot\cdot $	7	1	•• •	••
								i	2	::		
eukemia.	31	٠. .					١ ا	1 1		i	٠	.
nemia Chlorosis	32	3 .	• • •	• • •	• • •		1	$ \cdot\cdot $	1	1	1	į.
imple Meningitis.	39	:  ·	iò	···ė	···i	···i	::			·i		2
rogressive Locomotor Ataxia	10								1			2
rogressive Muscular Asrophy	11	٠.	٠.;	٠٠;			!	1	1			٠٠١.
erebral Hemorrhage and Congestion	13	z	3	1	• • •	• • •	• •	2	2			3
aralysis Without Indicated Cause.	14					: : :			!			:: :
eneral Paralysis	15						٠.		2	- 1		!
ther Forms of Insanity.	16	• •	• • •	• • • .	• • •	• • •	1	· · · · · · · · · · · · · · · · · · ·	ī	2	1	
onvulsions of Infants	19	Ŕļ.	13		···i	•••	::	Z		Z		$\cdot \cdot   \cdot$
etanus	50	ĭ.				··i	i		::	·i		i:
ther Diseases of the Nervous System 52	$\mathbf{c} $	• •	• •		٠٠;			2		··		2 .
regressive Locomotor Ataxia. regressive Muscular Asrophy. erebral Hemorrhage and Congestion. oftening of the Brain. aralysis Without Indicated Cause. eneral Paralysis. ther Forms of Insanity. pilepsy. onvulsions of Infants etanus. ther Diseases of the Nervous System. 52 ericarditis.	55	•   •		• • • •	1	• • • •	• •	••	• •	$\cdot \cdot  $	٠;۱۰	:: :
ericarditis. Indocarditis. Irganic Diseases of the Heart. Ingina Pectoris. Iseases of Arteries, Atheroma, Aneurism, etc. Imbolism. Icemorrhage. Ither Diseases of the Circulatory System. Iseases of the Larynx and Thyroid Body.	57	4	i	· i	2	··i	i	2 1	i	i	1 2	5
ngina Pectoris	58							1			٠٠١.	
iseases of Arteries, Atheroma, Aneurism, etc	59	• •	• • •	• • •	;	• • •		$ \cdots $		1	1 .	$\cdot_{\mathbf{i}} $
[emorrhage	R.5	i •	•••	•••	1	• • •		·i	::	•••	·il.	+ -
ther Diseases of the Circulatory System	36		2			· i				3	. [:	
iseases of the Larynx and Thyroid Body	38			2				i				
isseases of the Larynx and Thyroid Body	39	3	10	3	• • •		1	1	ا: ١	ا;٠	1.	• •
Broncho-Pneumonia	70  71	1	· i	···ż	•••	• • •	· ·	••	1	1	:: ·	••
neumonia	72	5	21	õ	· · · · · · · · · · · · · · · · · · ·		ii	4	5	i	9	6
leurisy	73								1		.].	
congestion and Apoplexy of Lungs	74	1	1	• • •	• • •	• • •				1	1 .	٠; ٠
roncho-Preumonia. reumonia. leurisy. ongestion and Apoplexy of Lungs. angrene of Lungs. sthma. ulmonary Emphysema.	76 · ·		٠;١	• • •	• • • •	• • •		••		••	i.	1
ulmonary Emphysema	Ă ::			:::	:::1				::		:ا:	
Yulmonary Emphysems	В					• • •						2 .
Jiseases of the Esophagus. 79	B	. 1	1	1	٠١		١ ا	١ ا			٠٠١٠	٠.,

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.—Continued.

AGE	PERIO	DS.		SI	<b>x.</b>	COLOR.				N	AT	VII	Y.						CON	OCIA	ion.	
Fifty to fifty-five. Fifty-five to sixty. Sixty to seventy.	Seventy to eighty.	Over pinety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
1	2 1 1	1	2	34 29 14  926 11  926 11  926 11  926 12 13 13 10 12 13 13 13 14 15 15 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	111 22 55 86 63 22 71 3  1 100 59 93 77 26	17 2	34441953229111558227737717758611115822455163244622278324431222	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		311.8111317211161.		2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i	4	i i i i i i i i i i i i i i i i i i i	1 1	45	15	244 120 : 1 116 6 1 2 1 1 1 : : : : : 2 2 2 2 1 4 4 2 2 1 : : 8 2 4 3 9 7 8 5 : 1 4 6 1 1 1 1 2 3 2 8 : 4 1 1 3 1 1 : 1 2	4	1 1 1 2 2 1 1 1 2 2 1 1 6 6 1 1 1 1 1 2 1 1 1 1	454 144 122 23 163 163 171 111 111 111 111 111 111 111 111 11

TABLE 87.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

				AG	E P	ERI	ОД	в.			
DEATHS IN TRENTON.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty-five to fifty.
Ulcer of Stomach	334	1 666 1 1	155	1 1 2 2 1	2	4	1	······································	1 2 2	222111111111111111	1 1 2 1 3 2 2 3 3 2 2 3 3 3 9 3 3 3 9 3 3 3 3 3
Other External Violence.       152         Exhaustion-Cachexia.       153         Inflammatory Fever.       164         B Dropsy.       155         Asphyxia-Cyanosis.       156         Other Tumors.       169		1 1 1	1					2	1	i	iii
Unknown or Not Specified Diseases. 161  Totals	3 87	200	$\frac{1}{72}$	39	12	40	75 8	30	2 . 34 7	. 1 8 87	78

Death-rate 18 30.

_	A	GE :	PERI	ОД	в.	_	SE	ж.	COLOR.				N	ATI	VIT	Y.							NDIT		
Fully to nity-nye.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totale
-   	1	1 5		i	<u> </u>	<del></del>		2 5 41			1	<u>-</u>		-	<u> </u>		<u>-</u> -			i	. 2		1 2		_
i		<u>.</u>	3	·i		2	1 7 45 3 2 6 1 5 2 12 1 5 3 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	41 14		2 9 83 10 1 7	2		2 1	14		1				i		5 86 6	···	i	
	1	···غ	3 1 1	i		.:	2 6	···;		1 7		::	::			• •		::	::	2	3	3	1 2	···i	
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				• •			1 3													1	1	ė			
1					• •	i	45	32 32	3	77	• •					,						77			
I	::			; ;	. ;			1 23		1 21		::				::	::	::			4	1 5	25	<sub>2</sub>	
	$\vdots$			14		::	13 3	1		2 1			6	6							3	ĭ			
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### TABLE 88.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

				AG	E P	ERI	ODS	3.				=
DEATHS IN WEST HOBOKEN.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Typhoid Fever	<u>.                                    </u>	;				1	1	1		۱ ا		••
Diphtheria and Croup	5 Da	1			:::		• •	• •	• •		• •	• •
Pyæmia and Septicæmia	4	1:::		:::	···i			::				::
Tuber- Of the Lungs 22	<b>L</b> I				ī	3	[i]	7	7	· .	8	1
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of the Stomach and Liver		:::					::					٠.
Of the Female Genital Organs 25	D	1	l		١ ا	۱ ا		!			!	i
of the Breast	E	1		i	ا ا							1
) Others	G	1				[			٠.:		1	1
Diabetes	ð 1		• • •				$\cdot \cdot  $	$ \cdot\cdot $	1	• •	• •	٠.
Leukemia. Simple Meningitis. Progressive Locomotor Ataxia. Cerebral Hemorrhage and Concestion.	<b>9</b> :	4	3	• • •	ıi		· il			i	::	::
Progressive Locomotor Ataxia	0	<b> </b>	1									
Cerebral Hemorrhage and Congestion4	2					• •				ا ين	1	1
Paralysis Without Indicated Cause. 4 General Paralysis. 4	<u>4</u>	···;			• • •	• •	$\cdot \cdot  $	$ \cdot\cdot $	•••		• •	• •
Other Forms of Insanity	8 8	*		• • •	• • • •			$ \cdot\cdot $	•••		•	•
Convulsions of Infants	9 i	. i · · · · · · · · · · · · · · · · · ·	1			۱ ا		i				
Convulsions of Infants	C	1 1	1		1	١ ا						
Pericarditis	5			•••						[	1	• •
Endocarditis	7	i		1	•••;	i	i	1	i		٠,	• •
Diseases of Arteries, Atheroma, Aneurism, etc	9 4	1			1	1	-		-1	i	0	•
Embolism	ŏ	1	1	1	1						i	::
Hemorrhage	5 1										٠.	
Other Diseases of the Circulatory System	6;	ļ					••	٠.	••		٠.	٠.
Diseases of the Larynx and Thyroid Body	8 0 1	. ···ż			• • • •	• •		1	•••	· • I	• •	• •
Chronic Bronchitis.	0 1	-	1			• •	••	*			• •	•
Broncho-Pneumonia. Pneumonia.	ĭ	2	l i	1	1		11		- 1	i I		::
Pneumonia.	2¦	2	5	1				2	1	2	٠.,	1
Pleurisy	3	1	1								1	٠.
Congestion and Apoplexy of Lungs.	a I					• •	::	$ \cdot\cdot $	٠.	• •	• •	• •
Other Diseases of the Respiratory System	B		1:::			: :		• •	••	i	:	i
Ulcer of Stomach.	o,	<b> </b>	:::	I:::				i				
Asthma. Other Diseases of the Respiratory System	1	i										
Infantile Diarrhœa, Athrepsia	2 2	17	5	١	١	۱ ا	!		١ ا	١ ا		

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERESY FOR DECEMBER 31ST, 1903.—Continued.

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Filly to mity-nive.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
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## TABLE 88.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES THE YEAR ENDING

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				AG	E PE	BIC	D8.	•		
DEATHS IN WEST HOBOKEN.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty-five to forty.	Forty to forty-five. Forty-five to fifty.
Diarrhœa and Enteritis.	1 3 8 1 2	5511	 1			1	1	1,	: ::	2 2
Totals	29	43	23	11	4	6	6	15 1	4 17	23 11

Death rate 11.76.

Ac	E PI	ERI	ODS	3.		SE	x.	COL	OR.				2	TAR	ivi	TY.							OCIA		
Fifty to fifty-five. Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white	mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Seotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totals.
1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	3	1		24 4 33 33 22 38 81 31 31 22	2 2 2 1 3 3 11 2 1 1 5 1 .			23 33 44 3 33 22 11 11 12 11 11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	`i	2 2 1 1 1 4 1  2 2 2  1  1	3	i i i i i i i i i i i i i i i i i i i				1 1 5		1 4 1 1 2 1 9 1 2 4 4 2 1 1 1 1	1 2 4 4 1 1 4 4 1 3 1 3 1 3 1 2 2 1 1 1 1 1 1 1 1 1 1 1	2 1 1 1 4 4	· i	14

TABLE 89.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

			•	AG	E P	ERI	ODE	3.				=
DEATHS IN WEST NEW YORK.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-five.	Thirty-five to forty.	Forty to forty-five.	Forty-five to fifty.
Simple Meningitis.         39           Cerebral Hemorrhage and Congestion.         48           Convulsions of Infants.         49           Tetanus.         50           Organic Diseases of the Heart.         57           Broncho-Pneumonia.         71           Pastanus.         76           Ulcer of Stomach.         80           Other Diseases of Stomach (Cancer Excepted).         81           Infantile Diarrhea, Athrepsia.         82           Diarrhea and Enteritis.         83           Dysentery         84           Other Diseases of Intestines.         87           Cirrhosis of the Liver         90           Bright's Disease.         97           Malformations.         137           Congenital Debility, Icterus and Sclerema.         138	1 1 1	2 1 1	2		i	1	1	1	1	1	1	
Totals	3	11	7	3		2	3	3	4	2	3	3

Death rate 11.98.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

A(	E P	ERI	ODS	3.		SE	x.	color.				1	TAT	IVI	TY.							BOCI NDIT	AL ION.	
Fifty to fifty-five. Fifty-five to sixty.	Sixty to seventy,	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white unless designated by mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Scotland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Total.
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TABLE 90.—TABULATION OF DEATHS FROM THE CLASSIFIED DISEASES
THE YEAR ENDING

				AG.	E PI	RIC	DB.				_
DEATHS IN WEST ORANGE.	Under one month.	Under one year.	One to five.	Five to ten.	Ten to fifteen.	Fifteen to twenty.	Twenty to twenty-five.	Twenty-five to thirty.	Thirty to thirty-nve.	Forty to forty-five.	Forty-five to fifty.
Whooping Cough			1 	· · · · · · · · · · · · · · · · · · ·			i		1	i	2
Congenital Debility, Icterus and Sclerema. 138 Senile Debility. 142 A Suicide or Attempt at Suicide 142 A Other External Violence. 153 Totals.		3	:::			1	2			.   .	i i

Death rate 10.52.

IN THE STATISTICAL DIVISIONS OF THE STATE OF NEW JERSEY FOR DECEMBER 31ST, 1903.

	AG	E P	ERI	OD	в.		SE	x.	COL	OR.					N/	TT	VIT	Y.					CON	DITI	L ON.	
futy to mty-nve.	Fifty-five to sixty.	Sixty to seventy.	Seventy to eighty.	Eighty to ninety.	Over ninety.	Not stated.	Male.	Female.	Color of decedent white	mark.	United States.	England.	France.	Germany.	Ireland.	Italy.	Seatland.	Hungary.	Sweden.	Other foreign.	Not stated.	Married.	Single.	Widowed.	Not stated.	Totala
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